

Cuaderno de Ejercicios

Fracciones


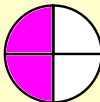


Aprender las Fracciones

Sumas de Fracciones

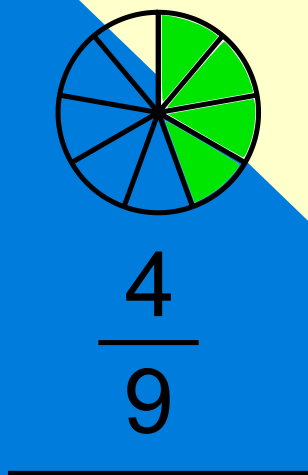
Resta de Fracciones

Multiplicación de Fracciones

Equivalentes de Fracciones

1)  =  2)  = 

$\frac{4}{8}$ $\frac{2}{4}$ $\frac{10}{12}$ $\frac{5}{6}$



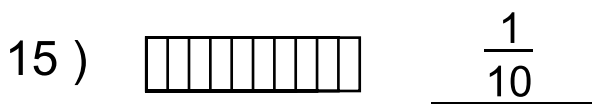
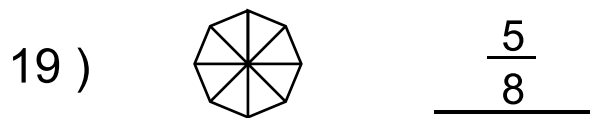
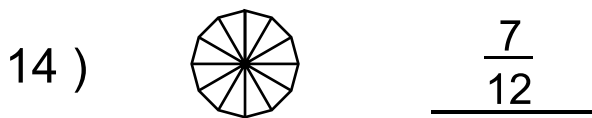
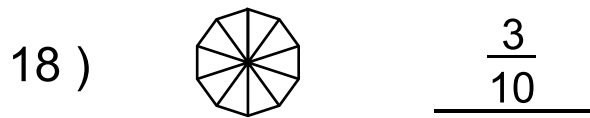
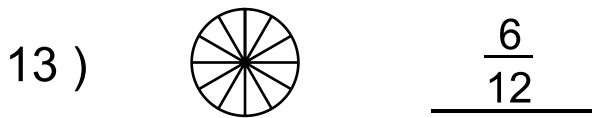
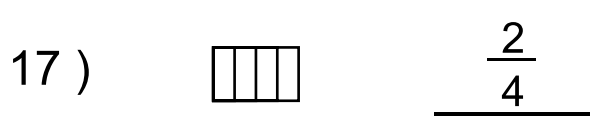
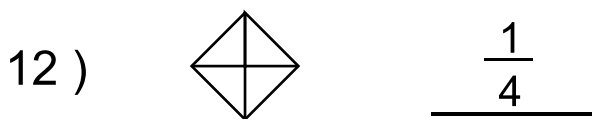
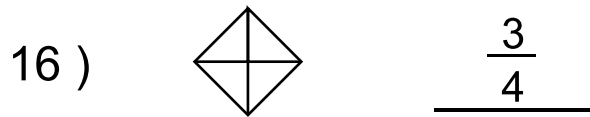
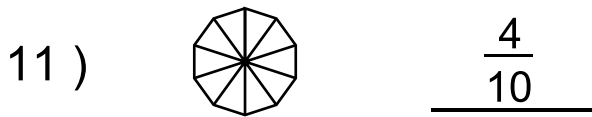
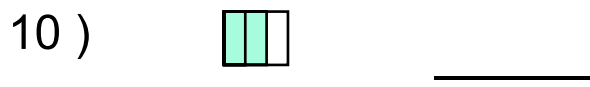
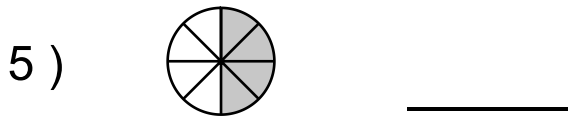
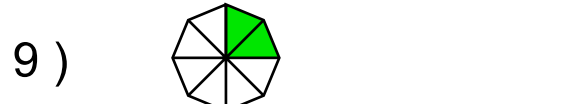
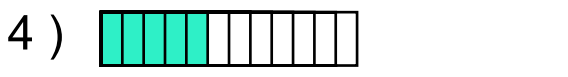
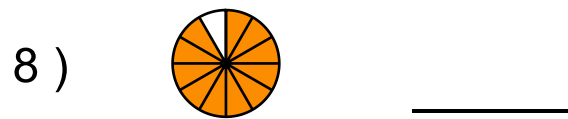
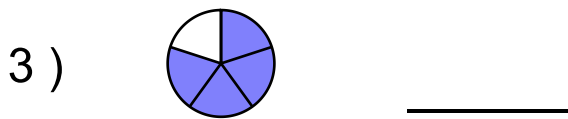
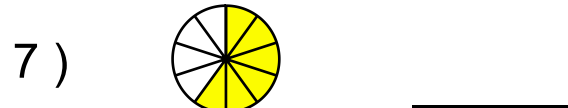
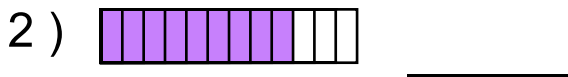
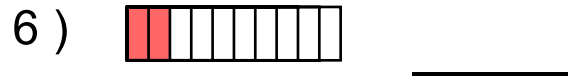
TOMO I





1. Qué es una fracción

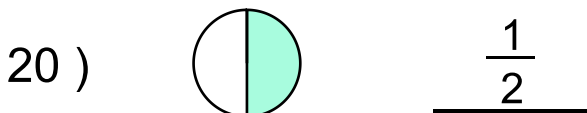
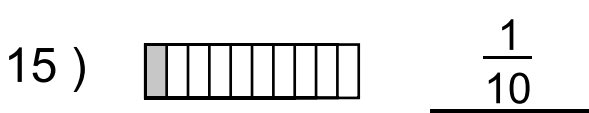
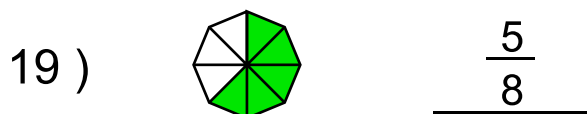
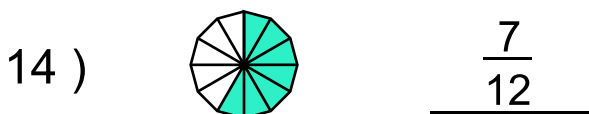
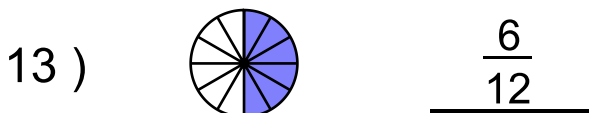
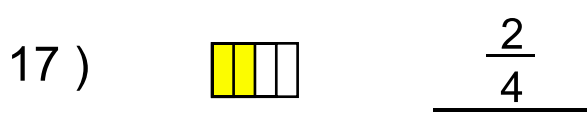
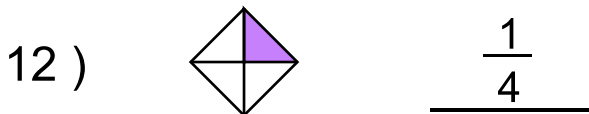
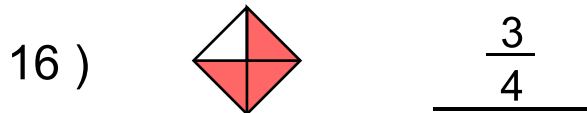
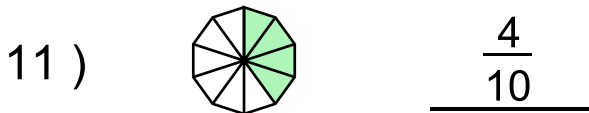
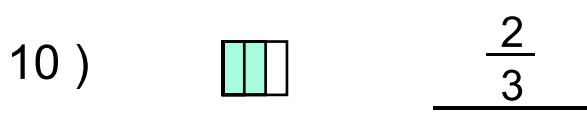
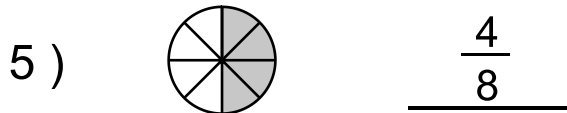
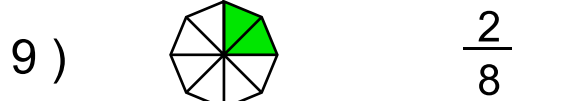
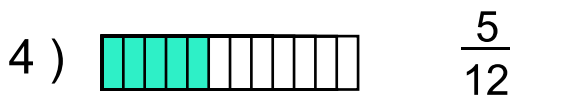
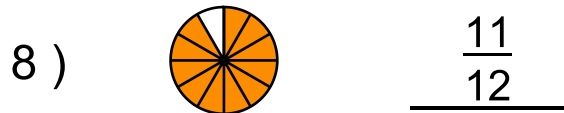
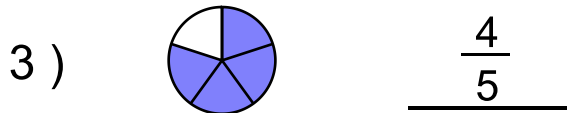
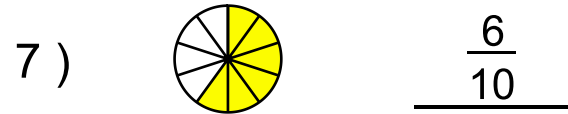
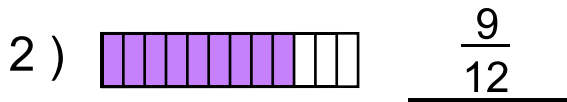
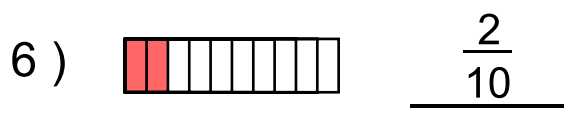
En los ejercicios 1) al 10) debes indicar la fracción que corresponde a las rebanadas coloreadas en cada figura. En los ejercicios 11) al 20) debes colorear la fracción.





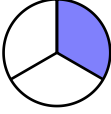
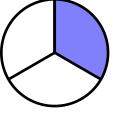

1. Qué es una fracción (respuestas)

En los ejercicios 1) al 10) debes indicar la fracción que corresponde a las rebanadas coloreadas en cada figura. En los ejercicios 11) al 20) debes colorear la fracción.



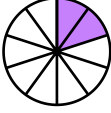
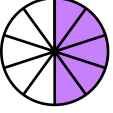
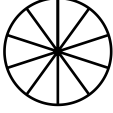
2. Suma de fracciones con mismo denominador

En los siguientes ejercicios debes realizar la suma de fracciones. Colorea el total de rebanadas sumadas y escribe la fracción con número.

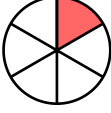
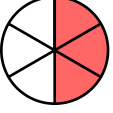
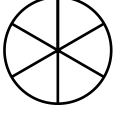
1)  +  =  _____

$$\frac{1}{3} + \frac{1}{3} =$$

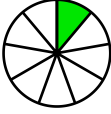
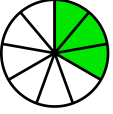
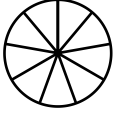


2)  +  =  _____

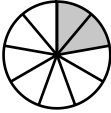
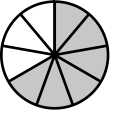
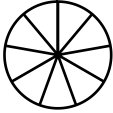
$$\frac{2}{10} + \frac{5}{10} =$$

3)  +  =  _____

$$\frac{1}{6} + \frac{3}{6} =$$

4)  +  =  _____

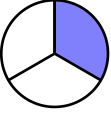
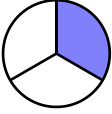

$$\frac{1}{9} + \frac{3}{9} =$$

5)  +  =  _____

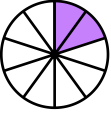
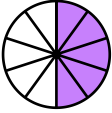
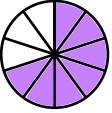
$$\frac{2}{9} + \frac{6}{9} =$$

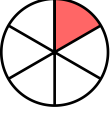
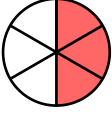
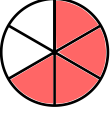
2. Suma de fracciones con mismo denominador (respuestas)

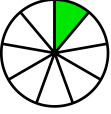
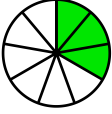
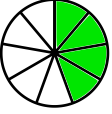
En los siguientes ejercicios debes realizar la suma de fracciones. Colorea el total de rebanadas sumadas y escribe la fracción con número.

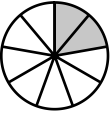
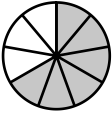
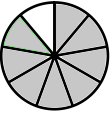
1)  +  =  $\frac{2}{3}$



2)  +  =  $\frac{7}{10}$

3)  +  =  $\frac{4}{6}$

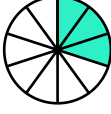
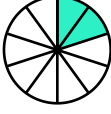
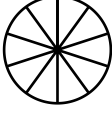
4)  +  =  $\frac{4}{9}$

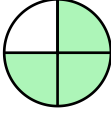
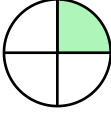
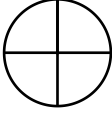
5)  +  =  $\frac{8}{9}$

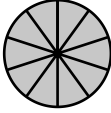
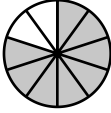
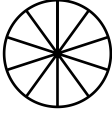


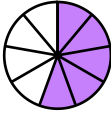
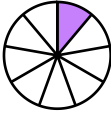
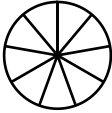
3. Resta de fracciones con mismo denominador

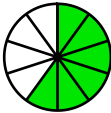
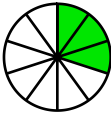
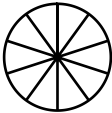
En los siguientes ejercicios debes realizar la resta de fracciones. Colorea el total de rebanadas que sobran y escribe con número la fracción que representa.

1)  $\frac{3}{10}$ -  $\frac{2}{10}$ =  _____

2)  $\frac{3}{4}$ -  $\frac{1}{4}$ =  _____

3)  $\frac{10}{10}$ -  $\frac{8}{10}$ =  _____

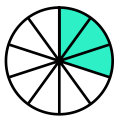
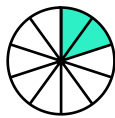
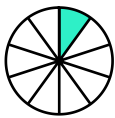
4)  $\frac{5}{9}$ -  $\frac{1}{9}$ =  _____

5)  $\frac{6}{10}$ -  $\frac{3}{10}$ =  _____

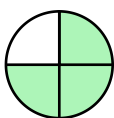
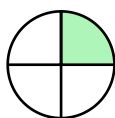
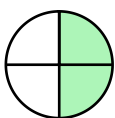


3. Resta de fracciones con mismo denominador (respuestas)

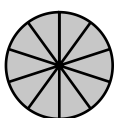
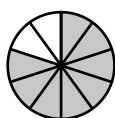
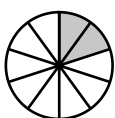
En los siguientes ejercicios debes realizar la resta de fracciones. Colorea el total de rebanadas que sobran y escribe con número la fracción que representa.

1)   = 

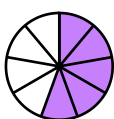
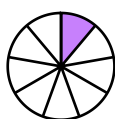
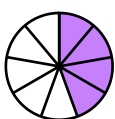
$$\frac{3}{10} - \frac{2}{10} = \frac{1}{10}$$

2)   = 

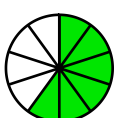
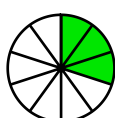
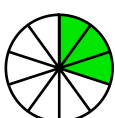
$$\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$$

3)   = 

$$\frac{10}{10} - \frac{8}{10} = \frac{2}{10}$$

4)   = 

$$\frac{5}{9} - \frac{1}{9} = \frac{4}{9}$$

5)   = 

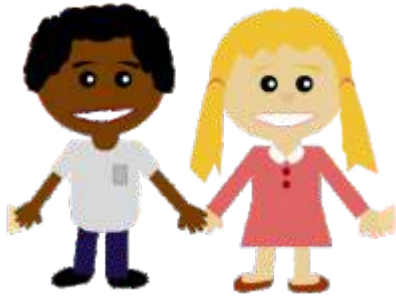
$$\frac{6}{10} - \frac{3}{10} = \frac{3}{10}$$



4. Pizzas y fracciones

En este ejercicio tienes que partir las pizzas en rebanadas iguales y repartirlas entre los amigos que se juntaron para comer la pizza. Tienes que escribir la fracción de pizza que le toca a cada persona en cada grupo de amigos. Dibuja los cortes de las rebanadas.

1.



Fracción de pizza por amigo: _____

2.



Fracción de pizza por amigo: _____

3.



Fracción de pizza por amigo: _____

4.

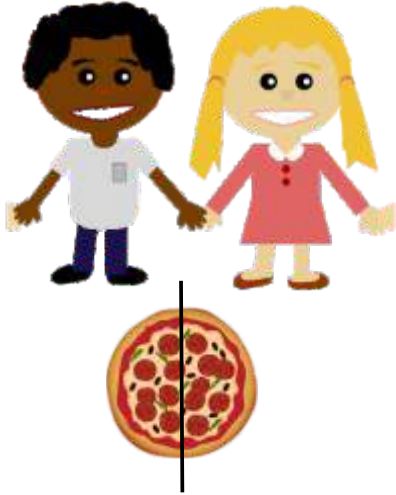


Fracción de pizza por amigo: _____



4. Pizzas y fracciones (respuestas)

1.



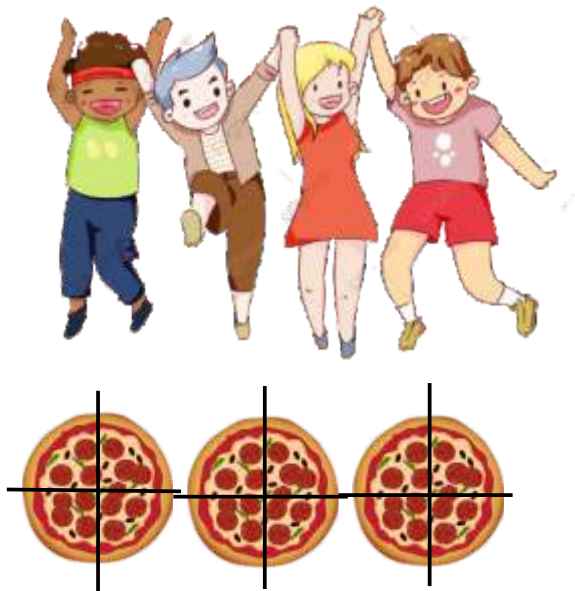
Fracción de pizza por amigo: $\frac{1}{2}$

2.



Fracción de pizza por amigo: $\frac{2}{3}$

3.



Fracción de pizza por amigo: $\frac{3}{4}$

4.

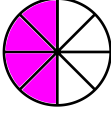
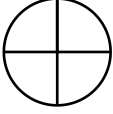



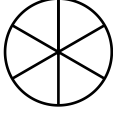
Fracción de pizza por amigo: $\frac{4}{5}$

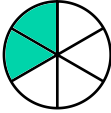
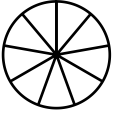


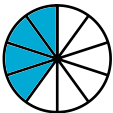
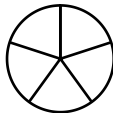
5. Fracciones Equivalentes

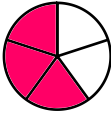
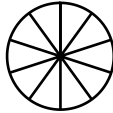
En cada ejercicio, colorea la fracción equivalente, es decir, las rebanadas que ocupen la misma cantidad que las coloreadas. Escribe en número la fracción.

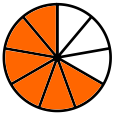
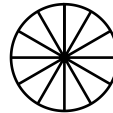
1)  = 
 $\frac{4}{8}$ _____

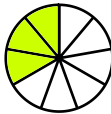
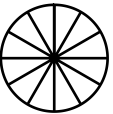
2)  = 
 $\frac{10}{12}$ _____

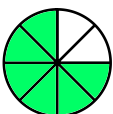
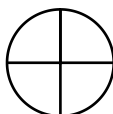
3)  = 
 $\frac{2}{6}$ _____

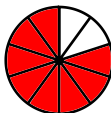

4)  = 
 $\frac{4}{10}$ _____

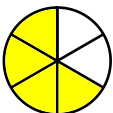
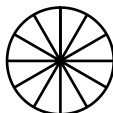
5)  = 
 $\frac{3}{5}$ _____

6)  = 
 $\frac{6}{9}$ _____

7)  = 
 $\frac{3}{9}$ _____

8)  = 
 $\frac{6}{8}$ _____

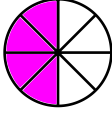
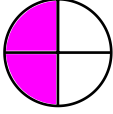
9)  = 
 $\frac{8}{10}$ _____


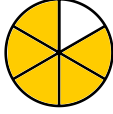
10)  = 
 $\frac{4}{6}$ _____

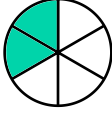
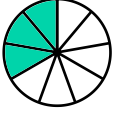
5. Fracciones equivalentes (respuestas)

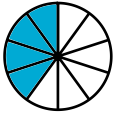
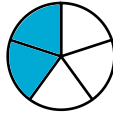


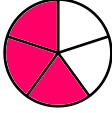
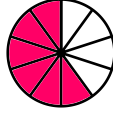
En cada ejercicio, colorea la fracción equivalente, es decir, las rebanadas que ocupen la misma cantidad que las coloreadas. Escribe en número la fracción.

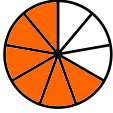
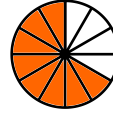
1)  =  $\frac{4}{8}$ = $\frac{2}{4}$

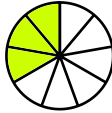
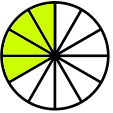
2)  =  $\frac{10}{12}$ = $\frac{5}{6}$

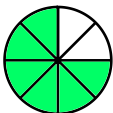
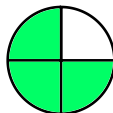
3)  =  $\frac{2}{6}$ = $\frac{3}{9}$

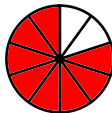
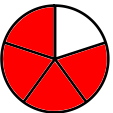
4)  =  $\frac{4}{10}$ = $\frac{2}{5}$

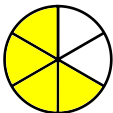
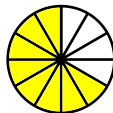
5)  =  $\frac{3}{5}$ = $\frac{6}{10}$

6)  =  $\frac{6}{9}$ = $\frac{8}{12}$

7)  =  $\frac{3}{9}$ = $\frac{4}{12}$

8)  =  $\frac{6}{8}$ = $\frac{3}{4}$

9)  =  $\frac{8}{10}$ = $\frac{4}{5}$

10)  =  $\frac{4}{6}$ = $\frac{8}{12}$



6. Fracciones Equivalentes

En cada ejercicio, colorea la fracción equivalente, es decir, las rebanadas que ocupen la misma cantidad que las coloreadas. Escribe en número la fracción.

1)

1/2	1/2
-----	-----

 $\frac{1}{2}$
=

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 /4

2)

1/2	1/2
-----	-----

 $\frac{1}{2}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 /8

3)

1/3	1/3	1/3
-----	-----	-----

 $\frac{2}{3}$
=

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 /6

4)

1/3	1/3	1/3
-----	-----	-----

 $\frac{1}{3}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 /12

5)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{3}{4}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 /8

6)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{2}{4}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 /12

7)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 $\frac{3}{6}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 /8

8)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 $\frac{5}{6}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 /12

9)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{2}{8}$
=

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 /4

10)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{4}{8}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 /12

6. Fracciones equivalentes (respuestas)



En cada ejercicio, colorea la fracción equivalente, es decir, las rebanadas que ocupen la misma cantidad que las coloreadas. Escribe en número la fracción.

1)

1/2	1/2
-----	-----

 $\frac{1}{2}$
=

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{2}{4}$

2)

1/2	1/2
-----	-----

 $\frac{1}{2}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{4}{8}$

3)

1/3	1/3	1/3
-----	-----	-----

 $\frac{2}{3}$
=

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 $\frac{4}{6}$

4)

1/3	1/3	1/3
-----	-----	-----

 $\frac{1}{3}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 $\frac{4}{12}$

5)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{3}{4}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{6}{8}$

6)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{2}{4}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 $\frac{6}{12}$

7)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 $\frac{3}{6}$
=

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{4}{8}$

8)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

 $\frac{5}{6}$
=

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 $\frac{10}{12}$

9)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{2}{8}$
=

1/4	1/4	1/4	1/4
-----	-----	-----	-----

 $\frac{1}{4}$

10)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

 $\frac{4}{8}$
=

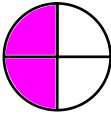
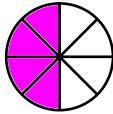
1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

 $\frac{6}{12}$

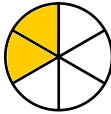
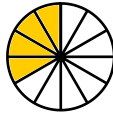
7. Fracciones Equivalentes



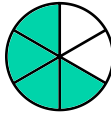
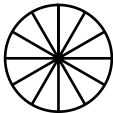
Completa la información faltante en cada ejercicio para determinar la fracción equivalente. Colorea las rebanadas y escribe la fracción.

1)  = 

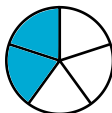
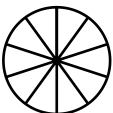
$$\frac{2}{4} = \frac{(2)(2)}{(4)(2)} = \frac{\quad}{\quad}$$

2)  = 

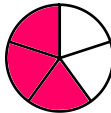
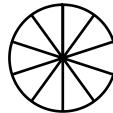
$$\frac{2}{6} = \frac{(2)(\quad)}{(6)(\quad)} = \frac{4}{12}$$

3)  = 



$$\frac{4}{6} = \frac{(4)(\quad)}{(6)(\quad)} = \frac{8}{12}$$

4)  = 


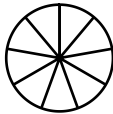
$$\frac{2}{5} = \frac{(2)(2)}{(5)(2)} = \frac{\quad}{\quad}$$

5)  = 

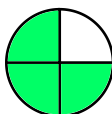
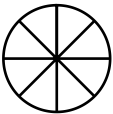
$$\frac{3}{5} = \frac{(3)(\quad)}{(5)(\quad)} = \frac{\quad}{10}$$

6)  = 

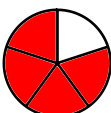
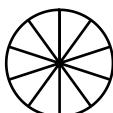
$$\frac{2}{3} = \frac{(2)(\quad)}{(3)(\quad)} = \frac{\quad}{\quad}$$

7)  = 

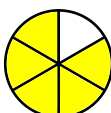
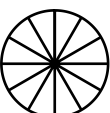
$$\frac{1}{3} = \frac{(1)(\quad)}{(3)(\quad)} = \frac{3}{\quad}$$

8)  = 

$$\frac{3}{4} = \frac{(3)(\quad)}{(4)(\quad)} = \frac{\quad}{8}$$

9)  = 

$$\frac{4}{5} = \frac{(4)(\quad)}{(5)(\quad)} = \frac{\quad}{\quad}$$

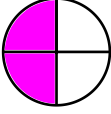
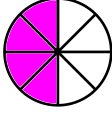
10)  = 

$$\frac{5}{6} = \frac{(5)(\quad)}{(6)(\quad)} = \frac{\quad}{\quad}$$

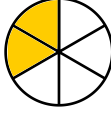
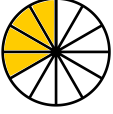
7. Fracciones equivalentes (respuestas)



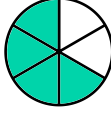
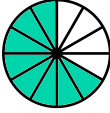
Completa la información faltante en cada ejercicio para determinar la fracción equivalente. Colorea las rebanadas y escribe la fracción.

1)  = 

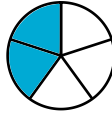
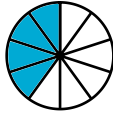
$$\frac{2}{4} = \frac{(2)(2)}{(4)(2)} = \frac{4}{8}$$

2)  = 

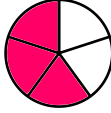
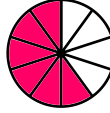
$$\frac{2}{6} = \frac{(2)(2)}{(6)(2)} = \frac{4}{12}$$

3)  = 



$$\frac{4}{6} = \frac{(4)(2)}{(6)(2)} = \frac{8}{12}$$

4)  = 


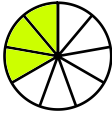
$$\frac{2}{5} = \frac{(2)(2)}{(5)(2)} = \frac{4}{10}$$

5)  = 

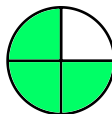
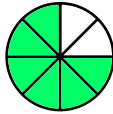
$$\frac{3}{5} = \frac{(3)(2)}{(5)(2)} = \frac{6}{10}$$

6)  = 

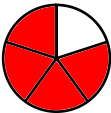
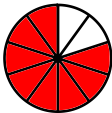
$$\frac{2}{3} = \frac{(2)(4)}{(3)(4)} = \frac{8}{12}$$

7)  = 

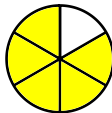
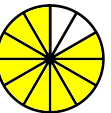
$$\frac{1}{3} = \frac{(1)(3)}{(3)(3)} = \frac{3}{9}$$

8)  = 

$$\frac{3}{4} = \frac{(3)(2)}{(4)(2)} = \frac{6}{8}$$

9)  = 

$$\frac{4}{5} = \frac{(4)(2)}{(5)(2)} = \frac{8}{10}$$

10)  = 

$$\frac{5}{6} = \frac{(5)(2)}{(6)(2)} = \frac{10}{12}$$



8. Reducción de fracciones

En cada ejercicio, debes pegar rebanadas para encontrar una fracción equivalente. Completa la información que haga falta y colorea las fracciones que lo necesiten.

1)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

1/2	1/2
-----	-----

$$\frac{2}{4} = \frac{2/2}{4/2} = \frac{1}{2}$$

2)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/2	1/2
-----	-----

$$\frac{4}{8} = \frac{4/4}{8/4} = \frac{1}{2}$$

3)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

1/3	1/3	1/3
-----	-----	-----

$$\frac{2}{6} = \frac{2/2}{6/2} = \frac{1}{3}$$

4)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

1/3	1/3	1/3
-----	-----	-----

$$\frac{8}{12} = \frac{8/4}{12/4} = \frac{2}{3}$$

5)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{6}{8} = \frac{6/2}{8/2} = \frac{3}{4}$$

6)

1	1	1	1	1	1	1	1	1	1	1	1
12	12	12	12	12	12	12	12	12	12	12	12

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{6}{12} = \frac{6/2}{12/2} = \frac{1}{2}$$

7)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

$$\frac{16}{24} = \frac{16/4}{24/4} = \frac{4}{6}$$

8)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

$$\frac{10}{12} = \frac{10/2}{12/2} = \frac{5}{6}$$

9)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{2}{8} = \frac{2/4}{8/4} = \frac{1}{4}$$

10)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

$$\frac{8}{24} = \frac{8/8}{24/8} = \frac{1}{3}$$

8. Reducción de fracciones (respuestas)



En cada ejercicio, debes pegar rebanadas para encontrar una fracción equivalente. Completa la información que haga falta y colorea las fracciones que lo necesiten.

1)

1/4	1/4	1/4	1/4
-----	-----	-----	-----

1/2	1/2
-----	-----

$$\frac{2}{4} = \frac{2/2}{4/2} = \frac{1}{2}$$

2)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/2	1/2
-----	-----

$$\frac{4}{8} = \frac{4/4}{8/4} = \frac{1}{2}$$

3)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

1/3	1/3	1/3
-----	-----	-----

$$\frac{2}{6} = \frac{2/2}{6/2} = \frac{1}{3}$$

4)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

1/3	1/3	1/3
-----	-----	-----

$$\frac{8}{12} = \frac{8/4}{12/4} = \frac{2}{3}$$

5)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{6}{8} = \frac{6/2}{8/2} = \frac{3}{4}$$

6)

1	1	1	1	1	1	1	1	1	1	1	1
12	12	12	12	12	12	12	12	12	12	12	12

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{6}{12} = \frac{6/3}{12/3} = \frac{2}{4}$$

7)

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

$$\frac{16}{24} = \frac{16/4}{24/4} = \frac{4}{6}$$

8)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

1/6	1/6	1/6	1/6	1/6	1/6
-----	-----	-----	-----	-----	-----

$$\frac{10}{12} = \frac{10/2}{12/2} = \frac{5}{6}$$

9)

1/8	1/8	1/8	1/8
1/8	1/8	1/8	1/8

1/4	1/4	1/4	1/4
-----	-----	-----	-----

$$\frac{2}{8} = \frac{2/2}{8/2} = \frac{1}{4}$$

10)

1/12	1/12	1/12	1/12	1/12	1/12
1/12	1/12	1/12	1/12	1/12	1/12

$$\frac{8}{24} = \frac{8/2}{24/2} = \frac{4}{12}$$

9. Reducción de fracciones

En cada ejercicio, factoriza el numerador y el denominador. Después, cancela números iguales (arriba y abajo) para reducir la fracción.



$$1) \quad \frac{63}{70} = \frac{\cancel{7}(9)}{\cancel{7}(10)} = \frac{9}{10}$$

$$2) \quad \frac{4}{16} = \frac{(2)(2)}{(2)(8)} = \frac{\cancel{2}(\cancel{2})(1)}{\cancel{2}(\cancel{2})(4)} = \frac{1}{4}$$

$$3) \quad \frac{4}{10} = \frac{\cancel{2}(2)}{\cancel{2}(5)} = \frac{2}{5}$$

$$4) \quad \frac{6}{18} = \frac{(2)(3)}{(2)(9)} = \frac{\cancel{2}(\cancel{3})(1)}{\cancel{2}(\cancel{3})(3)} = \frac{1}{3}$$

$$5) \quad \frac{42}{48} = \frac{\cancel{6}(7)}{\cancel{6}(\cancel{8})} = \frac{7}{8}$$

$$6) \quad \frac{10}{20} = \frac{(2)(5)}{(2)(10)} = \frac{\cancel{2}(5)(1)}{\cancel{2}(\cancel{5})} = \frac{1}{2}$$

$$7) \quad \frac{42}{60} = \frac{(2)(21)}{(2)(30)} = \frac{(2)(3)(7)}{(2)(6)(5)} = \frac{(\cancel{2})(3)(7)}{(\cancel{2})(2)(\cancel{3})(5)} = \frac{7}{10}$$

$$8) \quad \frac{6}{15} = \frac{(\cancel{3})(2)}{(\cancel{3})(5)} = \frac{2}{5}$$

$$9) \quad \frac{14}{42} = \frac{(2)(7)}{(2)(21)} = \frac{(\cancel{2})(7)(1)}{(\cancel{2})(\cancel{7})(3)} = \frac{1}{3}$$

$$10) \quad \frac{12}{21} = \frac{(\cancel{3})(4)}{(\cancel{3})(7)} = \frac{(\cancel{3})(\cancel{4})(1)}{(\cancel{3})(7)} = \frac{4}{7}$$



9. Reducción de fracciones (respuestas)

En cada ejercicio, factoriza el numerador y el denominador. Después, cancela números (arriba y abajo) para reducir la fracción.

$$1) \quad \frac{63}{70} = \frac{\cancel{(7)}(9)}{\cancel{(7)}(10)} = \frac{9}{10}$$

$$2) \quad \frac{4}{16} = \frac{(2)(2)}{(2)(8)} = \frac{\cancel{(2)}\cancel{(2)}(1)}{\cancel{(2)}\cancel{(2)}(4)} = \frac{1}{4}$$

$$3) \quad \frac{4}{10} = \frac{\cancel{(2)}(2)}{\cancel{(2)}(5)} = \frac{2}{5}$$

$$4) \quad \frac{6}{18} = \frac{(2)(3)}{(2)(9)} = \frac{\cancel{(2)}\cancel{(3)}(1)}{\cancel{(2)}\cancel{(3)}(3)} = \frac{1}{3}$$

$$5) \quad \frac{42}{48} = \frac{\cancel{(6)}(7)}{\cancel{(6)}(8)} = \frac{7}{8}$$

$$6) \quad \frac{10}{20} = \frac{(2)(5)}{(2)(10)} = \frac{\cancel{(2)}\cancel{(5)}(1)}{\cancel{(2)}\cancel{(5)}(2)} = \frac{1}{2}$$

$$7) \quad \frac{42}{60} = \frac{(2)(21)}{(2)(30)} = \frac{(2)(3)(7)}{(2)(6)(5)} = \frac{\cancel{(2)}\cancel{(3)}(7)}{\cancel{(2)}\cancel{(2)}\cancel{(3)}(5)} = \frac{7}{10}$$

$$8) \quad \frac{6}{15} = \frac{\cancel{(3)}(2)}{\cancel{(3)}(5)} = \frac{2}{5}$$

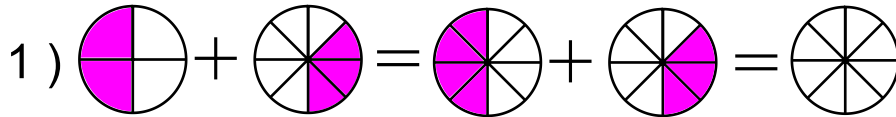
$$9) \quad \frac{14}{42} = \frac{(2)(7)}{(6)(7)} = \frac{\cancel{(2)}\cancel{(7)}(1)}{\cancel{(2)}\cancel{(3)}\cancel{(7)}} = \frac{1}{3}$$

$$10) \quad \frac{12}{21} = \frac{(2)(6)}{(3)(7)} = \frac{(2)(2)(3)}{(7)(3)} = \frac{4}{7}$$

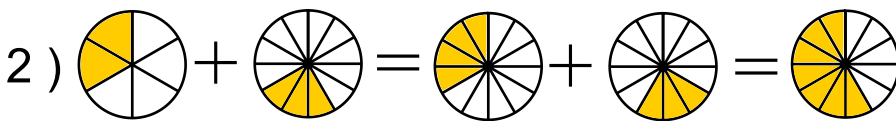
10. Suma de fracciones distinto denominador



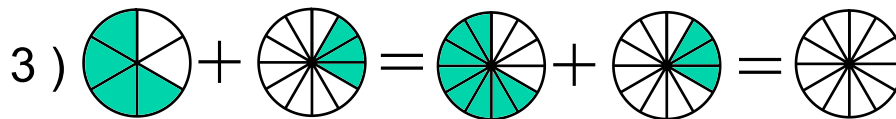
Completa la información faltante en cada ejercicio para determinar la suma de fracciones. Colorea las rebanadas y escribe la fracción.



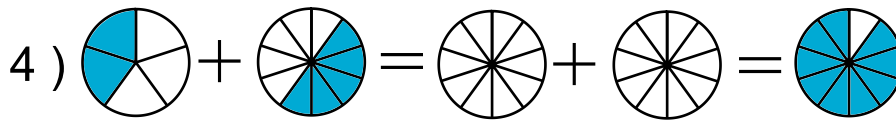
$$\frac{2}{4} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$$



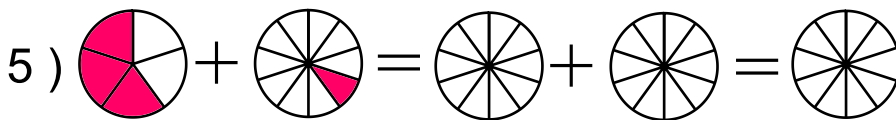
$$\frac{2}{6} + \frac{3}{12} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$$



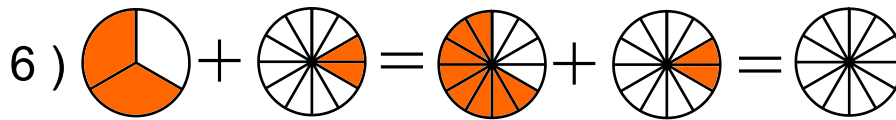
$$\frac{4}{6} + \frac{3}{12} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$



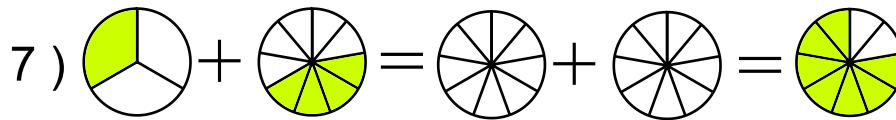
$$\frac{2}{5} + \frac{5}{10} = \frac{4}{10} + \frac{6}{10} = \frac{10}{10} = 1$$



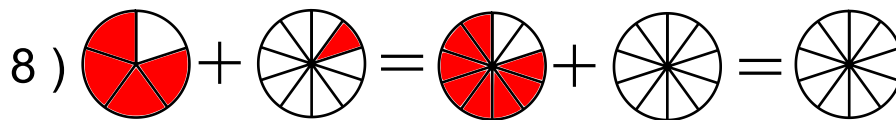
$$\frac{3}{5} + \frac{1}{10} = \frac{6}{10} + \frac{1}{10} = \frac{7}{10}$$



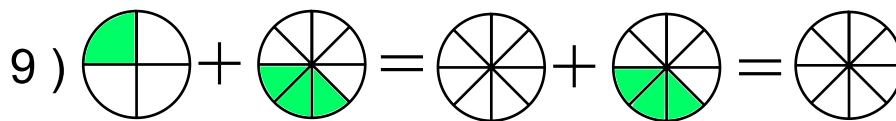
$$\frac{2}{3} + \frac{2}{12} = \frac{8}{12} + \frac{2}{12} = \frac{10}{12}$$



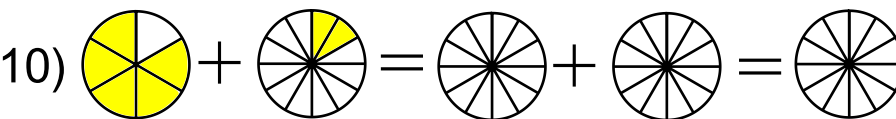
$$\frac{1}{3} + \frac{4}{9} = \frac{3}{9} + \frac{4}{9} = \frac{7}{9}$$



$$\frac{4}{5} + \frac{1}{10} = \frac{8}{10} + \frac{1}{10} = \frac{9}{10}$$



$$\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$



$$\frac{5}{6} + \frac{2}{12} = \frac{10}{12} + \frac{2}{12} = \frac{12}{12} = 1$$

10. Suma de fracciones distinto denominador (respuestas)



Completa la información faltante en cada ejercicio para determinar la suma de fracciones. Colorea las rebanadas y escribe la fracción.

1)		+		=		+		=		$\frac{2}{4} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$
2)		+		=		+		=		$\frac{2}{6} + \frac{3}{12} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$
3)		+		=		+		=		$\frac{4}{6} + \frac{3}{12} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$
4)		+		=		+		=		$\frac{2}{5} + \frac{5}{10} = \frac{4}{10} + \frac{5}{10} = \frac{9}{10}$
5)		+		=		+		=		$\frac{3}{5} + \frac{1}{10} = \frac{6}{10} + \frac{1}{10} = \frac{7}{10}$
6)		+		=		+		=		$\frac{2}{3} + \frac{2}{12} = \frac{8}{12} + \frac{2}{12} = \frac{10}{12}$
7)		+		=		+		=		$\frac{1}{3} + \frac{4}{9} = \frac{3}{9} + \frac{4}{9} = \frac{7}{9}$
8)		+		=		+		=		$\frac{4}{5} + \frac{1}{10} = \frac{8}{10} + \frac{1}{10} = \frac{9}{10}$
9)		+		=		+		=		$\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$
10)		+		=		+		=		$\frac{5}{6} + \frac{2}{12} = \frac{10}{12} + \frac{2}{12} = \frac{12}{12}$

11. Suma y resta de fracciones



Completa la información faltante en cada ejercicio para determinar la suma o resta de fracciones.

$$1) \quad \frac{3}{4} - \frac{2}{5} = \frac{(5)(3)}{(5)(4)} - \frac{(4)(2)}{(4)(5)} = \frac{15}{20} - \frac{8}{20} = \frac{\quad}{20}$$

$$2) \quad \frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{(\quad)(1)}{(\quad)(2)} = \frac{1}{4} + \frac{2}{4} = \frac{\quad}{4}$$

$$3) \quad \frac{1}{3} + \frac{2}{5} = \frac{(\quad)(1)}{(\quad)(3)} + \frac{(\quad)(2)}{(\quad)(5)} = \frac{5}{15} + \frac{6}{15} = \frac{\quad}{15}$$

$$4) \quad \frac{1}{2} + \frac{5}{10} = \frac{(\quad)(1)}{(\quad)(2)} + \frac{5}{10} = \frac{5}{10} + \frac{5}{10} = \frac{\quad}{10}$$

$$5) \quad \frac{1}{4} + \frac{1}{3} = \frac{(\quad)(1)}{(\quad)(4)} + \frac{(\quad)(1)}{(\quad)(3)} = \frac{\quad}{12} + \frac{4}{12} = \frac{7}{12}$$

$$6) \quad \frac{3}{4} - \frac{1}{2} = \frac{3}{4} - \frac{(\quad)(1)}{(\quad)(2)} = \frac{3}{4} - \frac{2}{4} = \frac{\quad}{4}$$

$$7) \quad \frac{4}{5} - \frac{1}{2} = \frac{(\quad)(4)}{(\quad)(5)} - \frac{(\quad)(1)}{(\quad)(2)} = \frac{8}{10} - \frac{\quad}{10} = \frac{3}{10}$$

$$8) \quad \frac{3}{10} + \frac{3}{5} = \frac{3}{10} + \frac{(\quad)(3)}{(\quad)(5)} = \frac{3}{10} + \frac{6}{10} = \frac{\quad}{10}$$

$$9) \quad \frac{1}{2} - \frac{1}{5} = \frac{(\quad)(1)}{(\quad)(2)} - \frac{(\quad)(1)}{(\quad)(5)} = \frac{\quad}{10} - \frac{\quad}{10} = \frac{3}{10}$$

$$10) \quad \frac{4}{5} - \frac{1}{4} = \frac{(\quad)(4)}{(\quad)(5)} - \frac{(\quad)(1)}{(\quad)(4)} = \frac{\quad}{20} - \frac{\quad}{20} = \frac{\quad}{20}$$

11. Suma y resta de fracciones (respuestas)



Completa la información faltante en cada ejercicio para determinar la suma o resta de fracciones.

$$1) \quad \frac{3}{4} - \frac{2}{5} = \frac{(5)(3)}{(5)(4)} - \frac{(4)(2)}{(4)(5)} = \frac{15}{20} - \frac{8}{20} = \frac{7}{20}$$

$$2) \quad \frac{1}{4} + \frac{1}{2} = \frac{1}{4} + \frac{(2)(1)}{(2)(2)} = \frac{1}{4} + \frac{2}{4} = \frac{3}{4}$$

$$3) \quad \frac{1}{3} + \frac{2}{5} = \frac{(5)(1)}{(5)(3)} + \frac{(3)(2)}{(3)(5)} = \frac{5}{15} + \frac{6}{15} = \frac{11}{15}$$

$$4) \quad \frac{1}{2} + \frac{5}{10} = \frac{(5)(1)}{(5)(2)} + \frac{5}{10} = \frac{5}{10} + \frac{5}{10} = \frac{10}{10}$$

$$5) \quad \frac{1}{4} + \frac{1}{3} = \frac{(3)(1)}{(3)(4)} + \frac{(4)(1)}{(4)(3)} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$$

$$6) \quad \frac{3}{4} - \frac{1}{2} = \frac{3}{4} - \frac{(2)(1)}{(2)(2)} = \frac{3}{4} - \frac{2}{4} = \frac{1}{4}$$

$$7) \quad \frac{4}{5} - \frac{1}{2} = \frac{(2)(4)}{(2)(5)} - \frac{(5)(1)}{(5)(2)} = \frac{8}{10} - \frac{5}{10} = \frac{3}{10}$$

$$8) \quad \frac{3}{10} + \frac{3}{5} = \frac{3}{10} + \frac{(2)(3)}{(2)(5)} = \frac{3}{10} + \frac{6}{10} = \frac{9}{10}$$


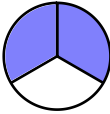
$$9) \quad \frac{1}{2} - \frac{1}{5} = \frac{(5)(1)}{(5)(2)} - \frac{(2)(1)}{(2)(5)} = \frac{5}{10} - \frac{2}{10} = \frac{3}{10}$$

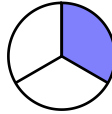
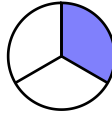
$$10) \quad \frac{4}{5} - \frac{1}{4} = \frac{(4)(4)}{(4)(5)} - \frac{(5)(1)}{(5)(4)} = \frac{16}{20} - \frac{5}{20} = \frac{11}{20}$$

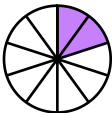
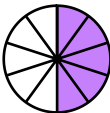
12. Comparación de fracciones

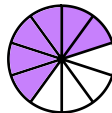
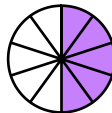
Escribe el signo $<$, $>$ ó $=$ según corresponda.

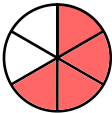
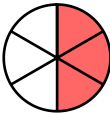


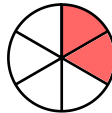
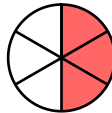
1)  $\frac{1}{3}$ —  $\frac{2}{3}$

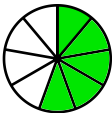

6)  $\frac{1}{3}$ —  $\frac{1}{3}$


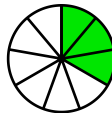
2)  $\frac{2}{10}$ —  $\frac{5}{10}$

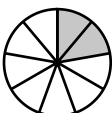
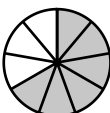
7)  $\frac{6}{10}$ —  $\frac{5}{10}$

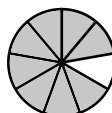
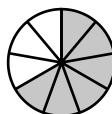
3)  $\frac{4}{6}$ —  $\frac{3}{6}$

8)  $\frac{2}{6}$ —  $\frac{3}{6}$

4)  $\frac{5}{9}$ —  $\frac{3}{9}$

9)  $\frac{4}{9}$ —  $\frac{3}{9}$



5)  $\frac{2}{9}$ —  $\frac{6}{9}$

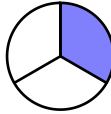
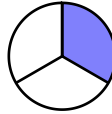
10)  $\frac{8}{9}$ —  $\frac{6}{9}$

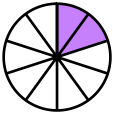
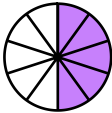
12. Comparación de fracciones (respuestas)

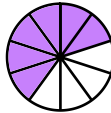
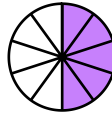


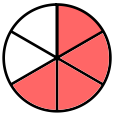
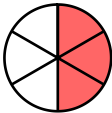
Escribe el signo $<$, $>$ ó $=$ según corresponda.

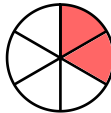
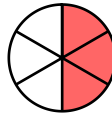
1)  $\frac{1}{3}$ $<$  $\frac{2}{3}$

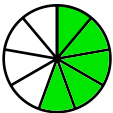

6)  $\frac{1}{3}$ $=$  $\frac{1}{3}$


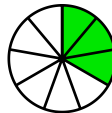
2)  $\frac{2}{10}$ $<$  $\frac{5}{10}$

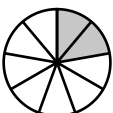
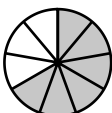
7)  $\frac{6}{10}$ $>$  $\frac{5}{10}$

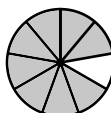
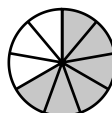
3)  $\frac{4}{6}$ $>$  $\frac{3}{6}$

8)  $\frac{2}{6}$ $<$  $\frac{3}{6}$

4)  $\frac{5}{9}$ $>$  $\frac{3}{9}$

9)  $\frac{4}{9}$ $>$  $\frac{3}{9}$

5)  $\frac{2}{9}$ $<$  $\frac{6}{9}$

10)  $\frac{8}{9}$ $>$  $\frac{6}{9}$

13. Comparación de fracciones



En cada ejercicio, escribe <, > ó = en las cajas, según sea el caso. Completa la información que haga falta.

1) $\frac{2}{4}$ $\frac{2}{3}$

$\frac{(2)(3)}{(4)(3)} = \frac{6}{12}$ $\frac{8}{12} = \frac{(2)(4)}{(3)(4)}$

2) $\frac{2}{5}$ $\frac{1}{3}$

$\frac{(2)(3)}{(5)(3)} = \frac{\quad}{15}$ $\frac{\quad}{15} = \frac{(1)(5)}{(3)(5)}$

3) $\frac{2}{6}$ $\frac{3}{4}$

$\frac{(2)(4)}{(6)(4)} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{(3)(6)}{(4)(6)}$

4) $\frac{1}{6}$ $\frac{1}{3}$

$\frac{(1)(3)}{(6)(3)} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{(1)(6)}{(3)(6)}$

5) $\frac{3}{4}$ $\frac{5}{6}$

$\frac{\quad}{(4)(6)} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{(5)(4)}{(6)(4)}$

6) $\frac{1}{3}$ $\frac{3}{6}$

$\frac{(1)(6)}{(3)(6)} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{\quad}{(3)(6)}$

7) $\frac{2}{3}$ $\frac{1}{4}$

$\frac{(2)(4)}{\quad} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{\quad}{(3)(4)}$

8) $\frac{3}{4}$ $\frac{3}{6}$

$\frac{(3)(6)}{\quad} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{\quad}{(6)(4)}$

9) $\frac{2}{4}$ $\frac{3}{5}$

$\frac{\quad}{\quad} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

10) $\frac{5}{6}$ $\frac{3}{5}$

$\frac{\quad}{\quad} = \frac{\quad}{\quad}$ $\frac{\quad}{\quad} = \frac{\quad}{\quad}$

13. Comparación de fracciones (respuestas)



En cada ejercicio, escribe $<$, $>$ ó $=$ en las cajas, según sea el caso.

$$1) \quad \frac{2}{4} \quad \boxed{<} \quad \frac{2}{3}$$

$$\frac{(2)(3)}{(4)(3)} = \frac{6}{12} \quad \frac{8}{12} = \frac{(2)(4)}{(3)(4)}$$

$$2) \quad \frac{2}{5} \quad \boxed{>} \quad \frac{1}{3}$$

$$\frac{(2)(3)}{(5)(3)} = \frac{6}{15} \quad \frac{5}{15} = \frac{(1)(5)}{(3)(5)}$$

$$3) \quad \frac{2}{6} \quad \boxed{<} \quad \frac{3}{4}$$

$$\frac{(2)(4)}{(6)(4)} = \frac{8}{24} \quad \frac{18}{24} = \frac{(3)(6)}{(4)(6)}$$

$$4) \quad \frac{1}{6} \quad \boxed{<} \quad \frac{1}{3}$$

$$\frac{(1)(3)}{(6)(3)} = \frac{3}{18} \quad \frac{6}{18} = \frac{(1)(6)}{(3)(6)}$$

$$5) \quad \frac{3}{4} \quad \boxed{<} \quad \frac{5}{6}$$

$$\frac{(3)(6)}{(4)(6)} = \frac{18}{24} \quad \frac{20}{24} = \frac{(5)(4)}{(6)(4)}$$

$$6) \quad \frac{1}{3} \quad \boxed{<} \quad \frac{3}{6}$$

$$\frac{(1)(6)}{(3)(6)} = \frac{6}{18} \quad \frac{9}{18} = \frac{(3)(3)}{(3)(6)}$$

$$7) \quad \frac{2}{3} \quad \boxed{>} \quad \frac{1}{4}$$

$$\frac{(2)(4)}{(3)(4)} = \frac{8}{12} \quad \frac{3}{12} = \frac{(3)(1)}{(3)(4)}$$

$$8) \quad \frac{3}{4} \quad \boxed{>} \quad \frac{3}{6}$$

$$\frac{(3)(6)}{(4)(6)} = \frac{18}{24} \quad \frac{12}{24} = \frac{(3)(4)}{(6)(4)}$$

$$9) \quad \frac{2}{4} \quad \boxed{<} \quad \frac{3}{5}$$

$$\frac{(2)(5)}{(4)(5)} = \frac{10}{20} \quad \frac{12}{20} = \frac{(3)(4)}{(5)(4)}$$

$$10) \quad \frac{5}{6} \quad \boxed{>} \quad \frac{3}{5}$$

$$\frac{(5)(5)}{(6)(5)} = \frac{25}{30} \quad \frac{18}{30} = \frac{(3)(6)}{(5)(6)}$$



14. Multiplicación de fracciones

Realiza las multiplicaciones de fracciones por enteros.

- | | | | | | | | | |
|-----|---|---|--|---|--|--|--|---|
| 1) | 2 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{\quad}{8}\right) = \frac{6}{8}$ |
| 2) | 3 | x | | = | | | | $\left(\frac{3}{1}\right) \left(\frac{\quad}{12}\right) = \frac{\quad}{12}$ |
| 3) | 2 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{\quad}{12}\right) = \frac{\quad}{12}$ |
| 4) | 2 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{\quad}{10}\right) = \frac{8}{\quad}$ |
| 5) | 4 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{\quad}{\quad}\right) = \frac{\quad}{10}$ |
| 6) | 3 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{2}{12}\right) = \frac{6}{\quad}$ |
| 7) | 3 | x | | = | | | | $\left(\frac{\quad}{1}\right) \left(\frac{\quad}{\quad}\right) = \frac{9}{9}$ |
| 8) | 4 | x | | = | | | | $\left(\frac{4}{1}\right) \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$ |
| 9) | 2 | x | | = | | | | $\left(\frac{\quad}{\quad}\right) \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$ |
| 10) | 3 | x | | = | | | | $\left(\frac{\quad}{\quad}\right) \left(\frac{\quad}{\quad}\right) = \frac{\quad}{\quad}$ |



14. Multiplicación de fracciones (respuestas)



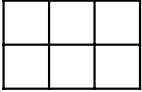
Realiza las multiplicaciones de fracciones por enteros.



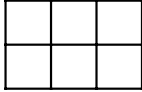
- | | | | | | | | |
|-----|------------|--|---|--|--|---|---|
| 1) | $2 \times$ | | = | | | $\left(\frac{2}{1}\right) \left(\frac{3}{8}\right) = \frac{6}{8}$ | |
| 2) | $3 \times$ | | = | | | | $\left(\frac{3}{1}\right) \left(\frac{3}{12}\right) = \frac{9}{12}$ |
| 3) | $2 \times$ | | = | | | $\left(\frac{2}{1}\right) \left(\frac{4}{12}\right) = \frac{8}{12}$ | |
| 4) | $2 \times$ | | = | | | $\left(\frac{2}{1}\right) \left(\frac{4}{10}\right) = \frac{8}{10}$ | |
| 5) | $4 \times$ | | = | | | | $\left(\frac{4}{1}\right) \left(\frac{2}{10}\right) = \frac{8}{10}$ |
| 6) | $3 \times$ | | = | | | | $\left(\frac{3}{1}\right) \left(\frac{2}{12}\right) = \frac{6}{12}$ |
| 7) | $3 \times$ | | = | | | | $\left(\frac{3}{1}\right) \left(\frac{3}{9}\right) = \frac{9}{9}$ |
| 8) | $4 \times$ | | = | | | | $\left(\frac{4}{1}\right) \left(\frac{1}{10}\right) = \frac{4}{10}$ |
| 9) | $2 \times$ | | = | | | $\left(\frac{2}{1}\right) \left(\frac{3}{8}\right) = \frac{6}{8}$ | |
| 10) | $3 \times$ | | = | | | | $\left(\frac{3}{1}\right) \left(\frac{2}{12}\right) = \frac{6}{12}$ |



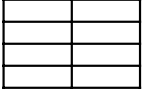




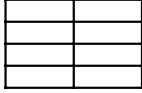
15. Multiplicación de fracciones


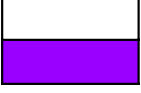
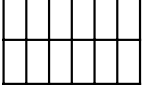
Realiza las siguientes multiplicaciones de fracciones. Colorea las fracciones y escribe la fracción con número.


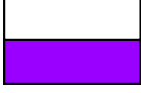

1)  x  = 
 $\frac{2}{3} \times \frac{1}{2} = \frac{\quad}{\quad}$


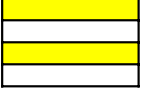
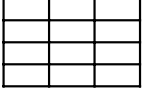
6)  x  = 
 $\frac{1}{3} \times \frac{1}{2} = \frac{\quad}{\quad}$



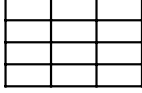
2)  x  = 
 $\frac{2}{4} \times \frac{1}{2} = \frac{\quad}{\quad}$



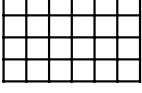
7)  x  = 
 $\frac{3}{4} \times \frac{1}{2} = \frac{\quad}{\quad}$



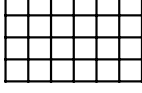
3)  x  = 
 $\frac{3}{6} \times \frac{1}{2} = \frac{\quad}{\quad}$

8)  x  = 
 $\frac{5}{6} \times \frac{1}{2} = \frac{\quad}{\quad}$

4)  x  = 
 $\frac{2}{3} \times \frac{2}{4} = \frac{\quad}{\quad}$

9)  x  = 
 $\frac{2}{3} \times \frac{3}{4} = \frac{\quad}{\quad}$


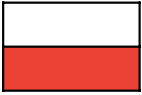
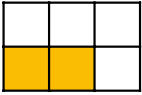
5)  x  = 
 $\frac{3}{6} \times \frac{2}{4} = \frac{\quad}{\quad}$

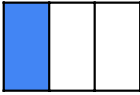
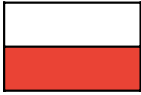
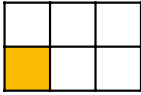
10)  x  = 
 $\frac{4}{6} \times \frac{3}{4} = \frac{\quad}{\quad}$

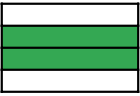

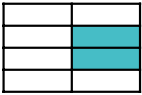


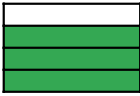

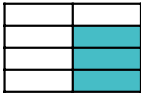
15. Multiplicación de fracciones (respuestas)


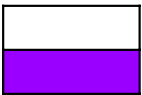
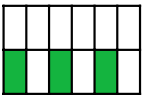
Realiza las siguientes multiplicaciones de fracciones. Colorea las fracciones y escribe la fracción con número.


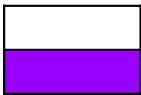
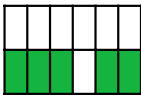
1)  x  = 
 $\frac{2}{3} \times \frac{1}{2} = \frac{2}{6}$




6)  x  = 
 $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$




2)  x  = 
 $\frac{2}{4} \times \frac{1}{2} = \frac{2}{8}$



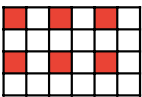
7)  x  = 
 $\frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$



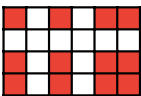
3)  x  = 
 $\frac{3}{6} \times \frac{1}{2} = \frac{3}{12}$

8)  x  = 
 $\frac{5}{6} \times \frac{1}{2} = \frac{5}{12}$

4)  x  = 
 $\frac{2}{3} \times \frac{2}{4} = \frac{4}{12}$

9)  x  = 
 $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12}$

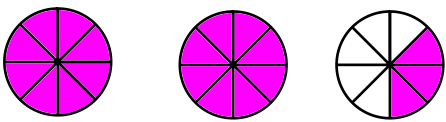
5)  x  = 
 $\frac{3}{6} \times \frac{2}{4} = \frac{6}{24}$

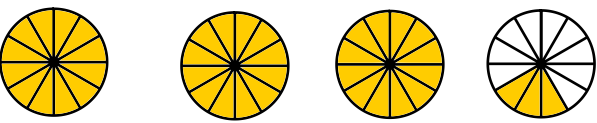
10)  x  = 
 $\frac{4}{6} \times \frac{3}{4} = \frac{12}{24}$

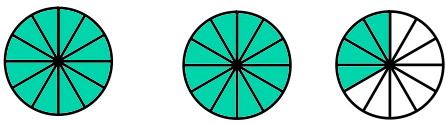


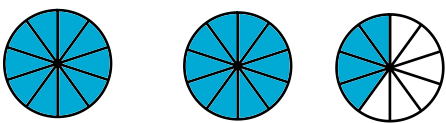
16. Fracciones impropias

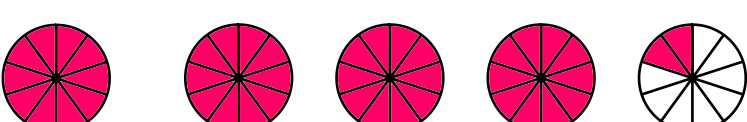
Escribe las fracciones impropias y conviértelas a fracciones mixtas.

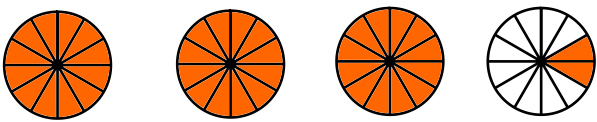
1)  $\frac{19}{8} = 2 \frac{3}{8}$

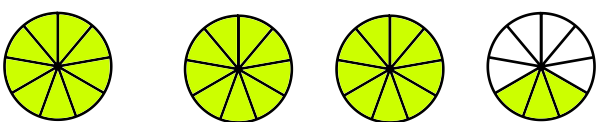
2)  $\frac{39}{12} = 3 \frac{3}{12}$

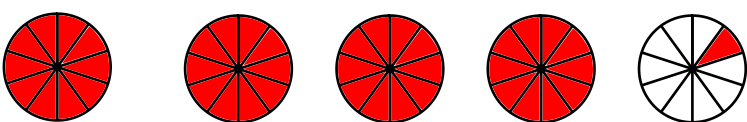
3)  $\frac{28}{12} = 2 \frac{4}{12}$

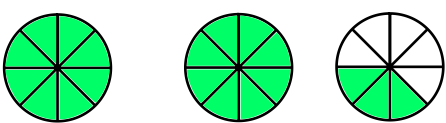
4)  $\frac{22}{10} = 2 \frac{2}{10}$

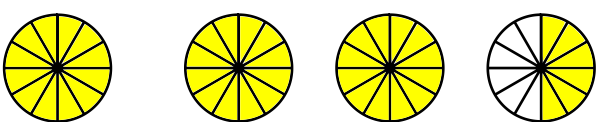
5)  $\frac{42}{10} = 4 \frac{2}{10}$

6)  $\frac{25}{12} = 2 \frac{1}{12}$

7)  $\frac{30}{10} = 3$

8)  $\frac{41}{10} = 4 \frac{1}{10}$

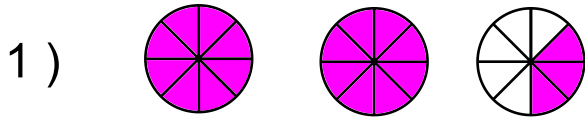
9)  $\frac{17}{8} = 2 \frac{1}{8}$

10)  $\frac{24}{12} = 2$

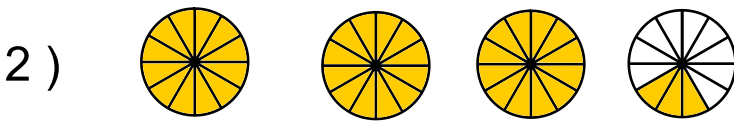


16. Fracciones impropias (respuestas)

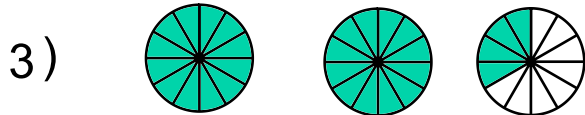
Escribe las fracciones impropias y conviértelas a fracciones mixtas.



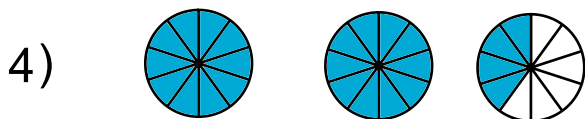
$$\frac{19}{8} = 2 \frac{3}{8}$$



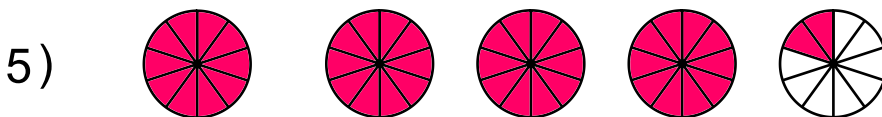
$$\frac{39}{12} = 3 \frac{3}{12}$$



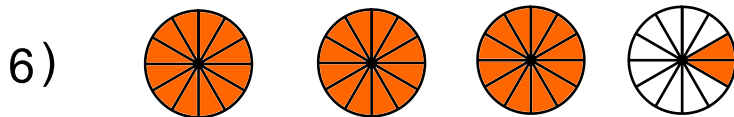
$$\frac{28}{12} = 2 \frac{4}{12}$$



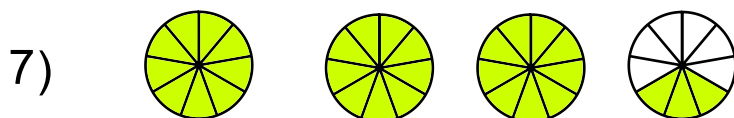
$$\frac{24}{10} = 2 \frac{4}{10}$$



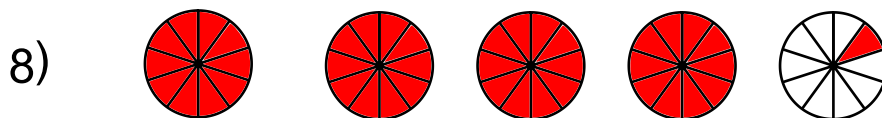
$$\frac{42}{10} = 4 \frac{2}{10}$$



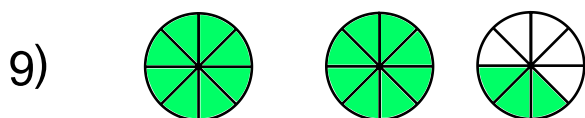
$$\frac{38}{12} = 3 \frac{2}{12}$$



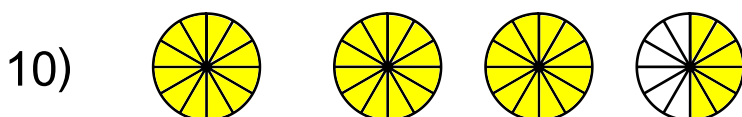
$$\frac{30}{9} = 3 \frac{3}{9}$$



$$\frac{41}{10} = 4 \frac{1}{10}$$



$$\frac{19}{8} = 2 \frac{3}{8}$$

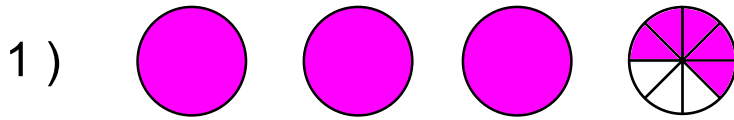


$$\frac{42}{12} = 3 \frac{6}{12}$$

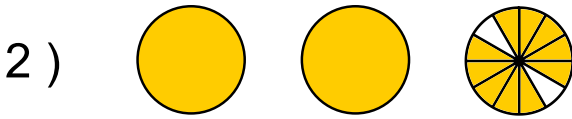
17. Fracciones mixtas



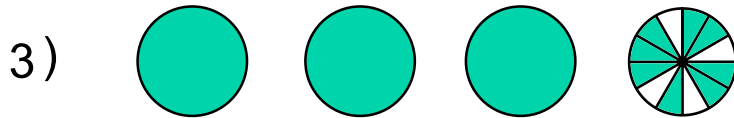
Escribe las fracciones mixtas y conviértelas a fracciones impropias.



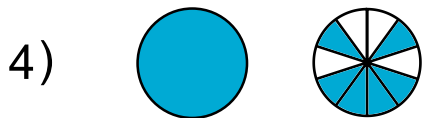
$$3 \frac{5}{8} = \frac{29}{8}$$



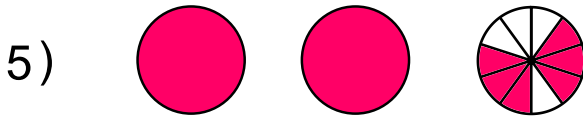
$$2 \frac{10}{12} = \frac{34}{12}$$



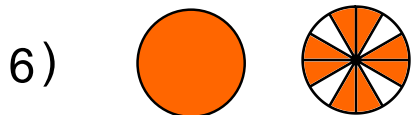
$$\frac{36}{12} = \frac{44}{12}$$



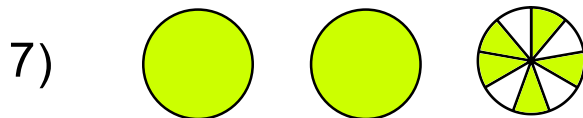
$$1 \frac{7}{10} = \frac{17}{10}$$



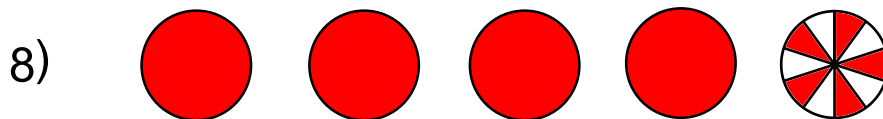
$$\frac{20}{10} = \frac{26}{10}$$



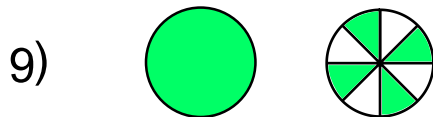
$$\frac{8}{12} = \frac{16}{12}$$



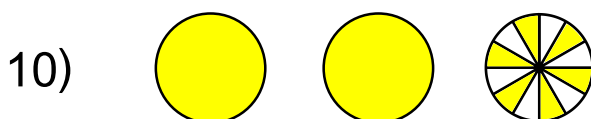
$$\frac{18}{9} = \frac{23}{9}$$



$$4 \frac{5}{10} = \frac{45}{10}$$



$$1 \frac{5}{8} = \frac{13}{8}$$

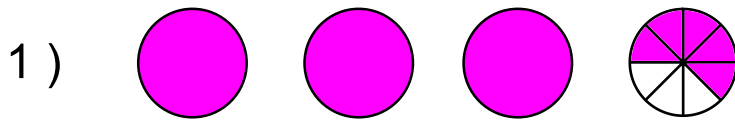


$$\frac{26}{12} = \frac{13}{6}$$

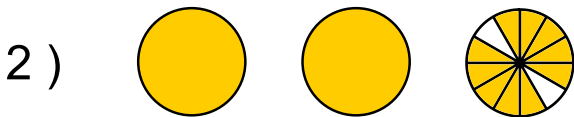


17. Fracciones mixtas (respuestas)

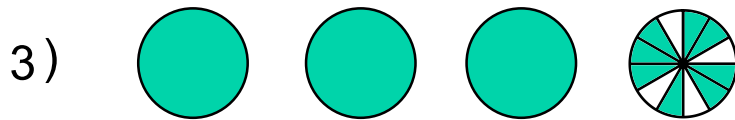
Escribe las fracciones mixtas y conviértelas a fracciones impropias.



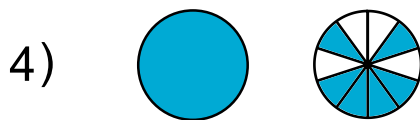
$$3 \frac{5}{8} = \frac{29}{8}$$



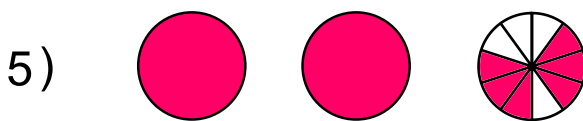
$$2 \frac{10}{12} = \frac{34}{12}$$



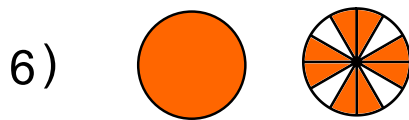
$$3 \frac{8}{12} = \frac{44}{12}$$



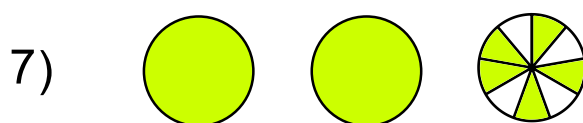
$$1 \frac{6}{10} = \frac{16}{10}$$



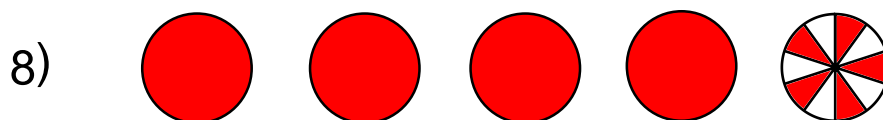
$$2 \frac{6}{10} = \frac{26}{10}$$



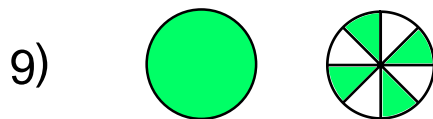
$$1 \frac{8}{12} = \frac{20}{12}$$



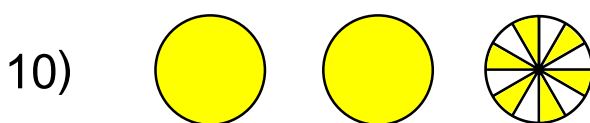
$$2 \frac{5}{9} = \frac{23}{9}$$



$$4 \frac{5}{10} = \frac{45}{10}$$



$$1 \frac{4}{8} = \frac{12}{8}$$



$$2 \frac{6}{12} = \frac{30}{12}$$



18. División de fracciones

Resuelve las siguientes divisiones de fracciones. Reduce las fracciones y cuando sea el caso, convierte las fracciones impropias a mixtas.

$$1) \quad \frac{1}{9} \div \frac{2}{3} = \frac{(1)(3)}{(9)(2)} = \frac{3}{18} = \frac{1}{6}$$

$$2) \quad \frac{1}{9} \div \frac{1}{3} = \frac{(1)(3)}{(9)(1)} = \frac{3}{9} = \frac{1}{3}$$

$$3) \quad \frac{5}{9} \div \frac{1}{4} = \frac{(5)(\quad)}{(9)(1)} = \frac{20}{9} = 2\frac{2}{9}$$

$$4) \quad \frac{1}{9} \div \frac{5}{6} = \frac{(1)(6)}{(9)(\quad)} = \frac{6}{45} = \frac{2}{15}$$

$$5) \quad \frac{3}{5} \div \frac{6}{7} = \frac{(3)(\quad)}{(5)(6)} = \frac{21}{30} = \frac{7}{10}$$

$$6) \quad \frac{8}{9} \div \frac{5}{6} = \frac{(8)(\quad)}{(9)(\quad)} = \frac{48}{45} = \frac{16}{15} = 1\frac{1}{15}$$

$$7) \quad \frac{2}{4} \div \frac{7}{8} = \frac{(2)(\quad)}{(4)(\quad)} = \frac{16}{28} = \frac{4}{7}$$

$$8) \quad \frac{1}{2} \div \frac{2}{4} = \frac{(1)(\quad)}{(2)(\quad)} = \frac{4}{4} = 1$$

$$9) \quad \frac{3}{5} \div \frac{1}{2} = \frac{(3)(\quad)}{(5)(\quad)} = \frac{6}{5} = 1\frac{1}{5}$$

$$10) \quad \frac{6}{9} \div \frac{1}{6} = \frac{(6)(\quad)}{(9)(\quad)} = \frac{36}{9} = 4$$

18. División de fracciones (respuestas)



Resuelve las siguientes divisiones de fracciones. Reduce las fracciones y cuando sea el caso, convierte las fracciones impropias a mixtas.

$$1) \quad \frac{1}{9} \div \frac{2}{3} = \frac{(1)(3)}{(9)(2)} = \frac{3}{18} = \frac{1}{6}$$

$$2) \quad \frac{1}{9} \div \frac{1}{3} = \frac{(1)(3)}{(9)(1)} = \frac{3}{9} = \frac{1}{3}$$

$$3) \quad \frac{5}{9} \div \frac{1}{4} = \frac{(5)(4)}{(9)(1)} = \frac{20}{9} = 2\frac{2}{9}$$

$$4) \quad \frac{1}{9} \div \frac{5}{6} = \frac{(1)(6)}{(9)(5)} = \frac{6}{45} = \frac{2}{15}$$

$$5) \quad \frac{3}{5} \div \frac{6}{7} = \frac{(3)(7)}{(5)(6)} = \frac{21}{30} = \frac{7}{10}$$

$$6) \quad \frac{8}{9} \div \frac{5}{6} = \frac{(8)(6)}{(9)(5)} = \frac{48}{45} = \frac{16}{15} = 1\frac{1}{15}$$

$$7) \quad \frac{2}{4} \div \frac{7}{8} = \frac{(2)(8)}{(4)(7)} = \frac{16}{28} = \frac{4}{7}$$

$$8) \quad \frac{1}{2} \div \frac{2}{4} = \frac{(1)(4)}{(2)(2)} = \frac{4}{4} = 1$$

$$9) \quad \frac{3}{5} \div \frac{1}{2} = \frac{(3)(2)}{(5)(1)} = \frac{6}{5} = 1\frac{1}{5}$$

$$10) \quad \frac{6}{9} \div \frac{1}{6} = \frac{(6)(6)}{(9)(1)} = \frac{36}{9} = \frac{4}{1} = 4$$

19. Operaciones con fracciones impropias y mixtas



Resuelve las siguientes operaciones con fracciones mixtas. Primero conviértelas a fracciones impropias, y al final conviértelas en fracciones mixtas si es el caso.

$$1) \quad 3\frac{1}{2} + 2\frac{5}{10} = \frac{7}{2} + \frac{25}{10} = \frac{7}{10} + \frac{25}{10} = \frac{60}{10} = 6$$

$$2) \quad 3\frac{8}{10} + 4\frac{4}{5} = \frac{38}{10} + \frac{48}{10} = \frac{86}{10} = 8\frac{6}{10}$$

$$3) \quad 4\frac{1}{2} - 3\frac{1}{3} = \frac{10}{2} - \frac{10}{3} = \frac{30}{6} - \frac{20}{6} = \frac{10}{6} = 1\frac{1}{6}$$

$$4) \quad 7\frac{1}{2} - 3\frac{1}{4} = \frac{15}{2} - \frac{13}{4} = \frac{30}{4} - \frac{13}{4} = \frac{17}{4} = 4\frac{1}{4}$$

$$5) \quad \left(2\frac{1}{3}\right) \left(2\frac{1}{4}\right) = \left(\frac{7}{3}\right) \left(\frac{9}{4}\right) = \frac{63}{12} = \frac{21}{4} = 5\frac{1}{4}$$

$$6) \quad \left(2\frac{1}{2}\right) \left(3\frac{1}{2}\right) = \left(\frac{5}{2}\right) \left(\frac{7}{2}\right) = \frac{35}{4} = 8\frac{3}{4}$$

$$7) \quad \left(2\frac{1}{2}\right) \left(2\frac{3}{5}\right) = \left(\frac{5}{2}\right) \left(\frac{13}{5}\right) = \frac{65}{10} = \frac{13}{2} = 6\frac{1}{2}$$

$$8) \quad 4\frac{2}{3} \div 4\frac{4}{5} = \left(\frac{14}{3}\right) \left(\frac{5}{24}\right) = \frac{70}{72} = \frac{35}{36}$$

$$9) \quad 4\frac{1}{2} \div 2\frac{3}{5} = \left(\frac{9}{2}\right) \left(\frac{5}{13}\right) = \frac{45}{26} = 1\frac{19}{26}$$

$$10) \quad 2\frac{1}{4} \div 2\frac{3}{10} = \left(\frac{9}{4}\right) \left(\frac{10}{23}\right) = \frac{90}{92} = \frac{45}{46}$$



19. Operaciones con fracciones impropias y mixtas (respuestas)

Resuelve las siguientes operaciones con fracciones mixtas. Primero convierte a fracciones impropias, y al final convierte en fracciones mixtas si es el caso.

$$1) \quad 3\frac{1}{2} + 2\frac{5}{10} = \frac{7}{2} + \frac{25}{10} = \frac{35}{10} + \frac{25}{10} = \frac{60}{10} = 6$$

$$2) \quad 3\frac{8}{10} + 4\frac{4}{5} = \frac{38}{10} + \frac{24}{5} = \frac{38}{10} + \frac{48}{10} = \frac{86}{10} = 8\frac{6}{10}$$

$$3) \quad 4\frac{1}{2} - 3\frac{1}{3} = \frac{9}{2} - \frac{10}{3} = \frac{27}{6} - \frac{20}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$4) \quad 7\frac{1}{2} - 3\frac{1}{4} = \frac{15}{2} - \frac{13}{4} = \frac{30}{4} - \frac{13}{4} = \frac{17}{4} = 4\frac{1}{4}$$

$$5) \quad \left(2\frac{1}{3}\right) \left(2\frac{1}{4}\right) = \left(\frac{7}{3}\right) \left(\frac{9}{4}\right) = \frac{63}{12} = \frac{21}{4} = 5\frac{1}{4}$$

$$6) \quad \left(2\frac{1}{2}\right) \left(3\frac{1}{2}\right) = \left(\frac{5}{2}\right) \left(\frac{7}{2}\right) = \frac{35}{4} = 8\frac{3}{4}$$

$$7) \quad \left(2\frac{1}{2}\right) \left(2\frac{3}{5}\right) = \left(\frac{5}{2}\right) \left(\frac{13}{5}\right) = \frac{65}{10} = \frac{13}{2} = 6\frac{1}{2}$$

$$8) \quad 4\frac{2}{3} \div 4\frac{4}{5} = \left(\frac{14}{3}\right) \left(\frac{5}{24}\right) = \frac{70}{72} = \frac{35}{36}$$

$$9) \quad 4\frac{1}{2} \div 2\frac{3}{5} = \left(\frac{9}{2}\right) \left(\frac{5}{13}\right) = \frac{45}{26} = 1\frac{19}{26}$$

$$10) \quad 2\frac{1}{4} \div 2\frac{3}{10} = \left(\frac{9}{4}\right) \left(\frac{10}{23}\right) = \frac{90}{92} = \frac{45}{46}$$

20. Operaciones con fracciones propias



Resuelve las siguientes operaciones. Reduce las fracciones a su mínima expresión y al final convierte en fracciones mixtas si es el caso.

$$1) \frac{1}{2} + 2 = \frac{1}{2} + \frac{4}{2} = \frac{5}{2} = 2\frac{1}{2}$$

$$2) 4 - \frac{8}{10} = \frac{40}{10} - \frac{8}{10} = \frac{32}{10} = 3\frac{2}{5}$$

$$3) \frac{2}{4} + \frac{4}{5} + \frac{2}{10} = \frac{5}{10} + \frac{16}{10} + \frac{2}{10} = \frac{23}{10} = 2\frac{3}{10}$$

$$4) \frac{3}{5} + \frac{1}{2} - \frac{2}{3} = \frac{18}{30} + \frac{15}{30} - \frac{20}{30} = \frac{13}{30}$$

$$5) \frac{2}{3} + \frac{5}{10} - \frac{1}{4} = \frac{40}{60} + \frac{30}{60} - \frac{15}{60} = \frac{55}{60} = \frac{11}{12}$$

$$6) \frac{1}{2} + \frac{4}{5} + \frac{8}{10} = \frac{5}{10} + \frac{16}{10} + \frac{8}{10} = \frac{29}{10} = 2\frac{9}{10}$$

$$7) \left(\frac{8}{10}\right) \left(\frac{2}{3}\right) = \frac{\cancel{(2)}(_)(2)}{\cancel{(2)}(5)(_)} = \frac{8}{15}$$

$$8) \left(\frac{4}{5}\right) \left(\frac{15}{24}\right) = \frac{\cancel{(5)}(\cancel{2})(\cancel{5})(1)}{\cancel{(5)}\cancel{(2)}\cancel{(3)}\cancel{(2)}(_)} = \frac{1}{2}$$

$$9) \left(\frac{2}{4}\right) \left(\frac{2}{6}\right) = \frac{\cancel{(2)}(_)(1)}{\cancel{(2)}(\cancel{2})(3)(_)} = \frac{1}{6}$$

$$10) \left(\frac{3}{4}\right) \left(\frac{2}{12}\right) = \frac{\cancel{(3)}(\cancel{2})(1)}{\cancel{(3)}(\cancel{2)}(_)(4)} = \frac{1}{4}$$

20. Operaciones con fracciones propias (respuestas).



Resuelve las siguientes operaciones. Reduce las fracciones a su mínima expresión y al final convierte en fracciones mixtas si es el caso.

$$1) \frac{1}{2} + 2 = \frac{1}{2} + \frac{4}{2} = \frac{5}{2} = 2\frac{1}{2}$$

$$2) 4 - \frac{8}{10} = \frac{40}{10} - \frac{8}{10} = \frac{32}{10} = 3\frac{2}{10}$$

$$3) \frac{2}{4} + \frac{4}{5} + \frac{2}{10} = \frac{10}{20} + \frac{16}{20} + \frac{4}{20} = \frac{30}{20} = \frac{3}{2} = 1\frac{1}{2}$$

$$4) \frac{3}{5} + \frac{1}{2} - \frac{2}{3} = \frac{18}{30} + \frac{15}{30} - \frac{20}{30} = \frac{13}{30}$$

$$5) \frac{2}{3} + \frac{5}{10} - \frac{1}{4} = \frac{40}{60} + \frac{30}{60} - \frac{15}{60} = \frac{55}{60} = \frac{11}{12}$$

$$6) \frac{1}{2} + \frac{4}{5} + \frac{8}{10} = \frac{5}{10} + \frac{8}{10} + \frac{8}{10} = \frac{21}{10} = 2\frac{1}{10}$$

$$7) \left(\frac{8}{10}\right) \left(\frac{2}{3}\right) = \frac{\cancel{(2)}(4)(2)}{\cancel{(2)}(5)(3)} = \frac{8}{15}$$

$$8) \left(\frac{4}{5}\right) \left(\frac{15}{24}\right) = \frac{\cancel{(2)}\cancel{(2)}\cancel{(3)}\cancel{(5)}(1)}{\cancel{(5)}\cancel{(2)}\cancel{(3)}\cancel{(2)}(2)} = \frac{1}{2}$$

$$9) \left(\frac{2}{4}\right) \left(\frac{2}{6}\right) = \frac{\cancel{(2)}\cancel{(2)}(1)}{\cancel{(2)}\cancel{(2)}(3)(2)} = \frac{1}{6}$$

$$10) \left(\frac{3}{4}\right) \left(\frac{2}{12}\right) = \frac{\cancel{(3)}\cancel{(2)}(1)}{(2)\cancel{(2)}\cancel{(3)}(4)} = \frac{1}{8}$$

21. Conversión entre fracciones y decimales

Realiza las conversiones entre fracciones y decimales.

1) $\frac{7}{8} =$

2) $\quad = 0.75$

3) $\frac{8}{10} =$

4) $\quad = 0.625$

5) $\frac{1}{5} =$

6) $\quad = 0.5$

7) $\frac{7}{10} =$

8) $\quad = 0.9$

9) $\frac{1}{4} =$

10) $\quad = 0.4$



21. Conversión entre fracciones y decimales (respuestas)

Realiza las conversiones entre fracciones y decimales.

$$1) \quad \frac{7}{8} = 0.875$$

$$2) \quad \frac{3}{4} = 0.75$$

$$3) \quad \frac{8}{10} = 0.8$$

$$4) \quad \frac{5}{8} = 0.625$$

$$5) \quad \frac{1}{5} = 0.2$$

$$6) \quad \frac{5}{10} = 0.5$$

$$7) \quad \frac{7}{10} = 0.7$$

$$8) \quad \frac{9}{10} = 0.9$$

$$9) \quad \frac{1}{4} = 0.25$$

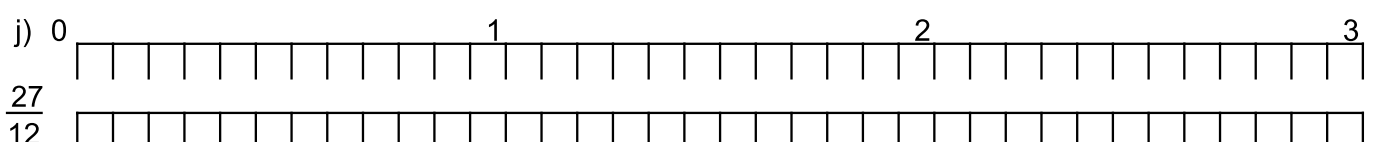
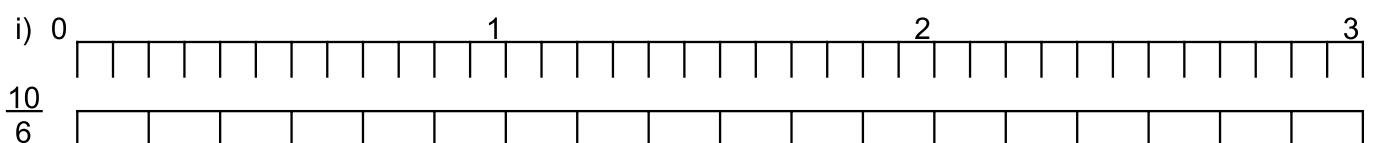
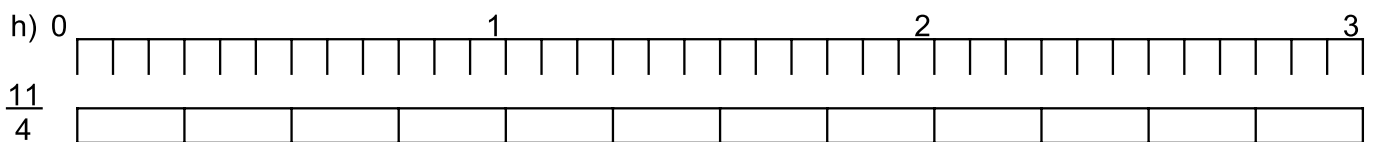
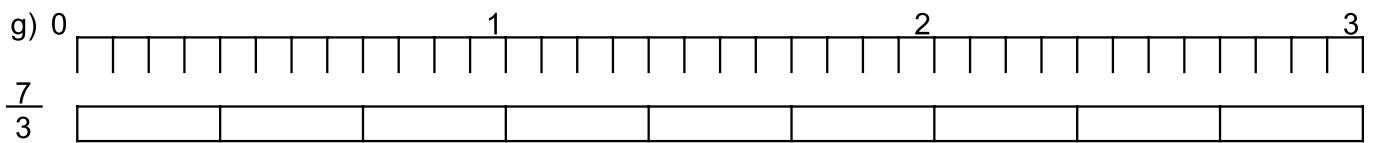
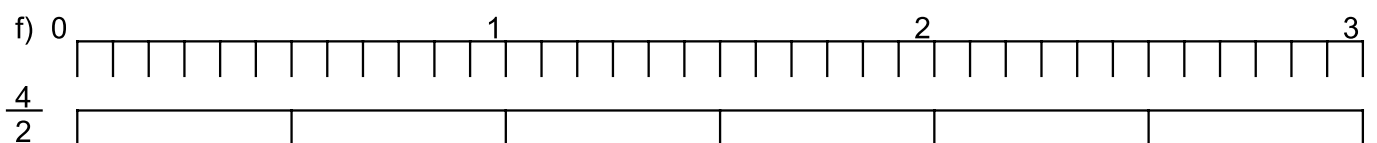
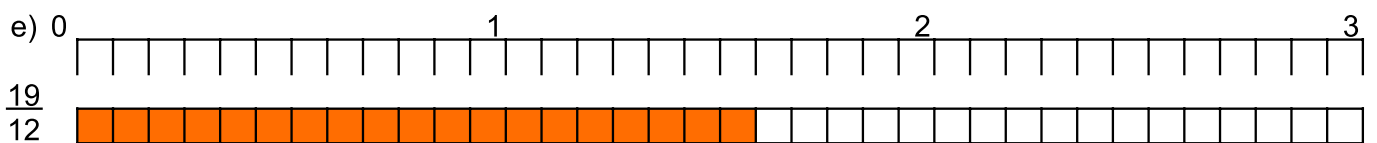
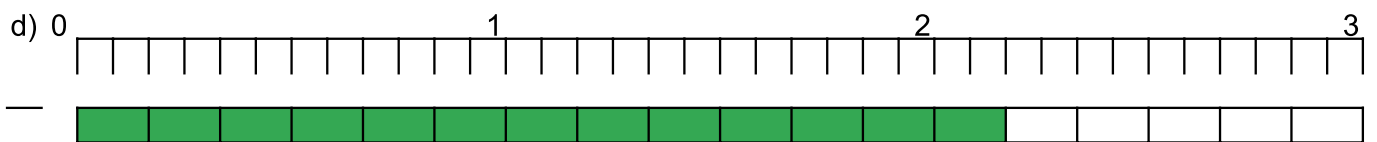
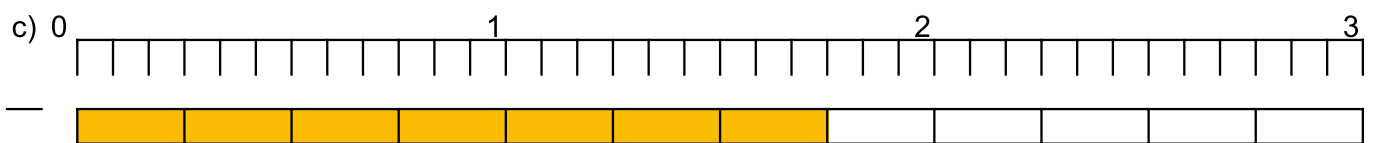
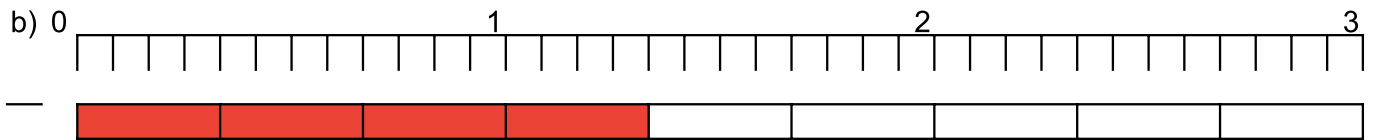
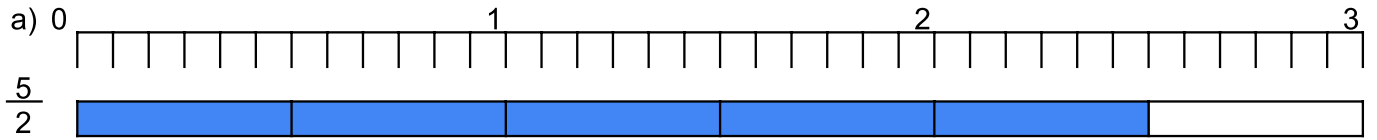
$$10) \quad \frac{2}{5} = 0.4$$



22. Fracciones en la recta numérica



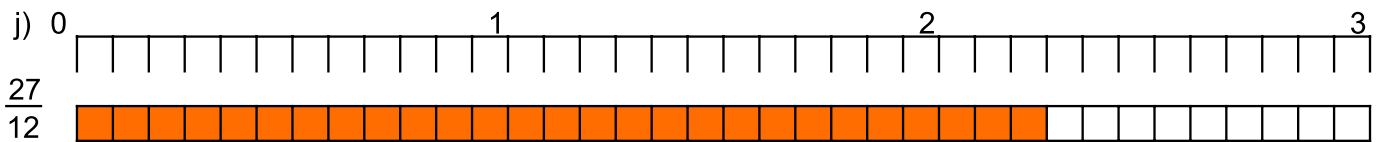
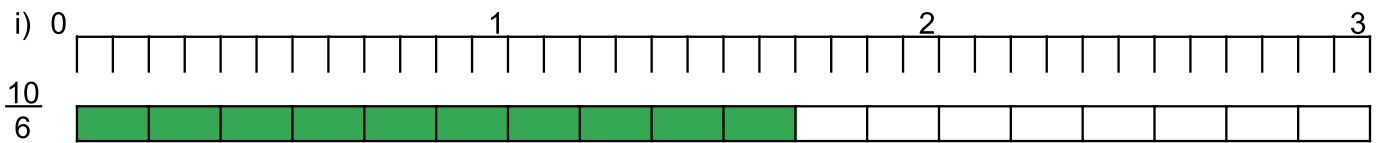
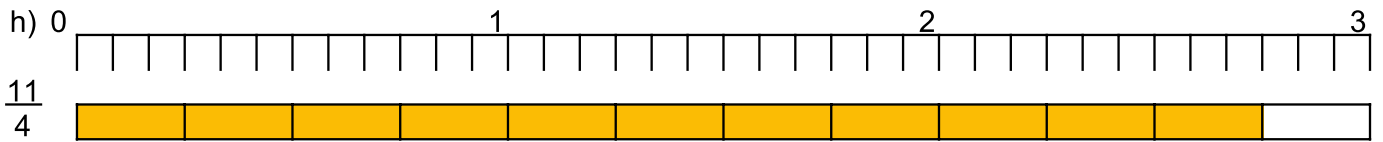
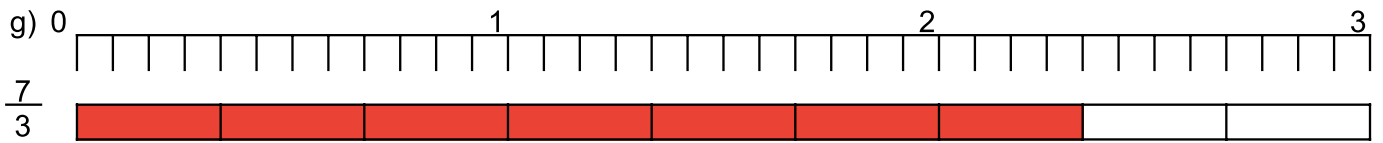
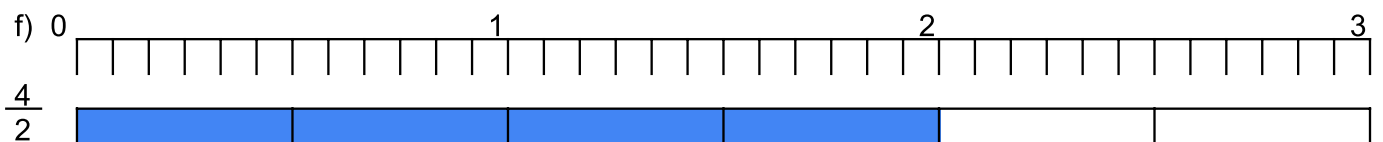
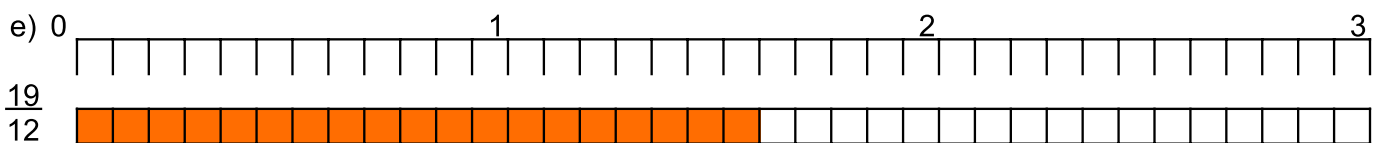
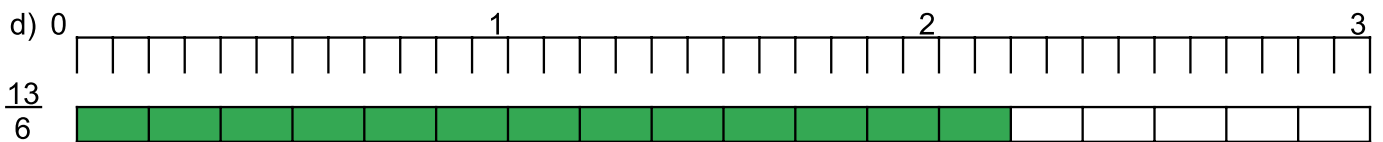
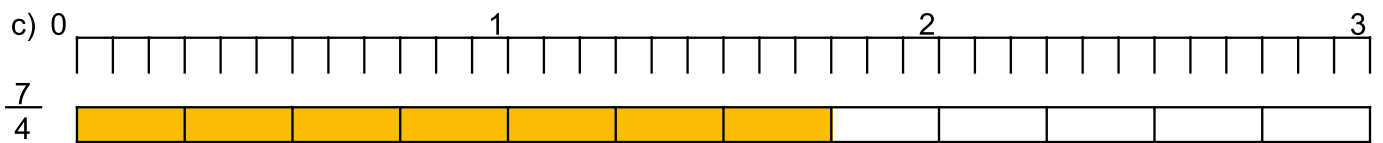
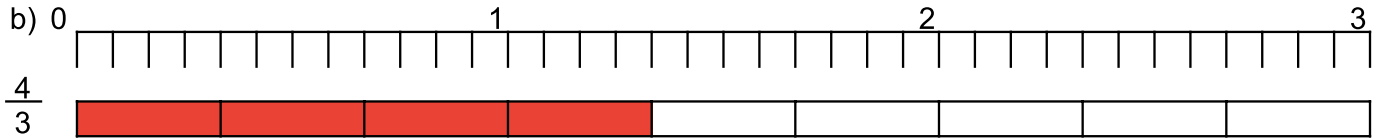
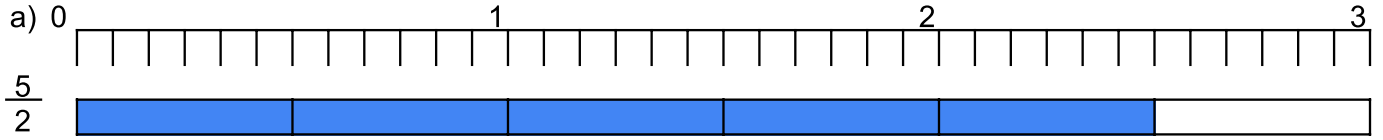
Ubica las fracciones en la recta numérica. Colorea las barras o escribe la fracción.



22. Fracciones en la recta numérica (respuestas)



Ubica las fracciones en la recta numérica. Colorea las barras o escribe la fracción.



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