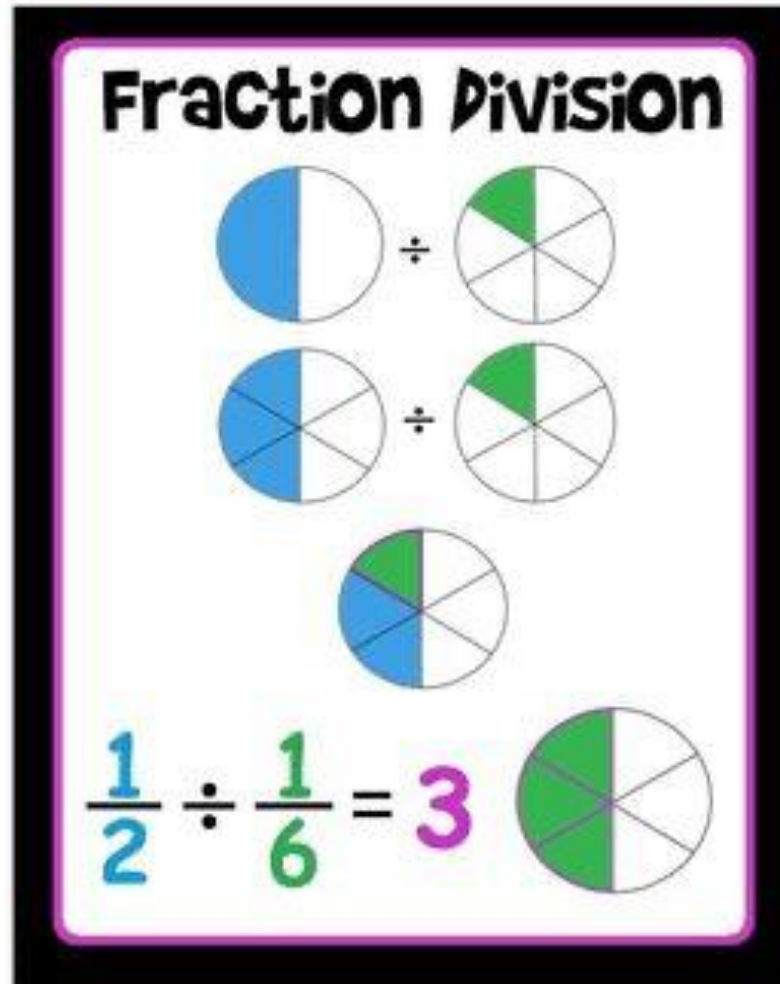


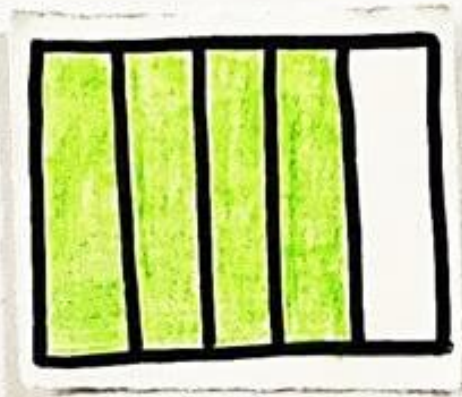


Division of Fractions

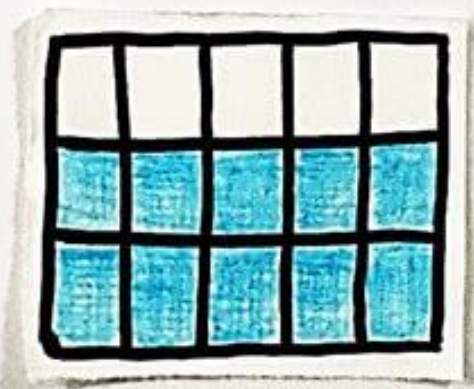
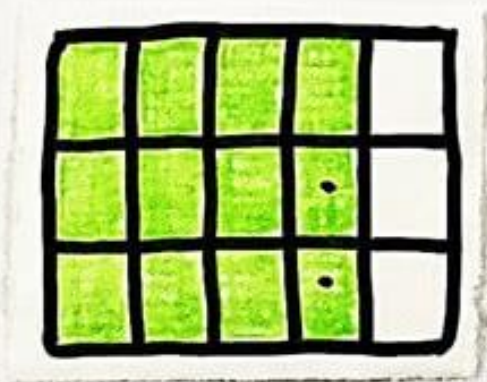
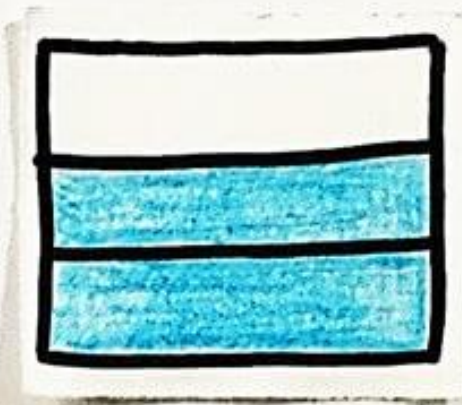


How many.... in

how many fit?

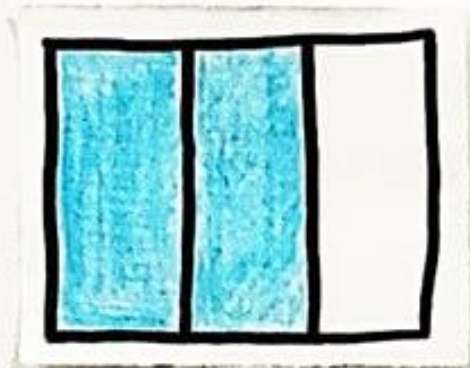


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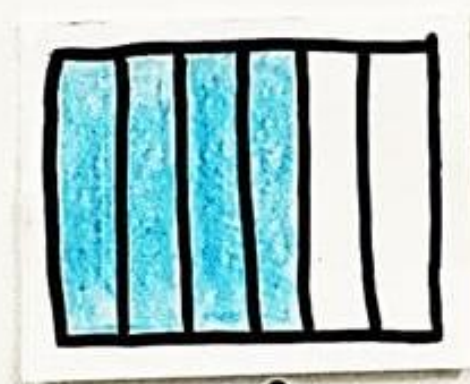
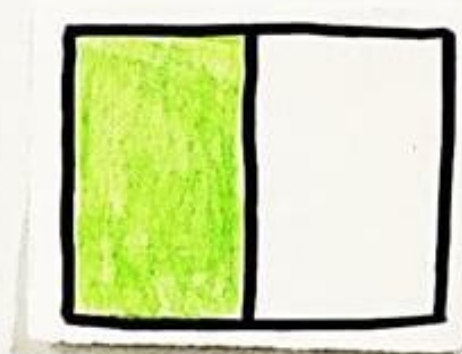


$$\frac{4}{5} \div \frac{2}{3} = 1\frac{2}{10} = \textcircled{1\frac{1}{5}}$$

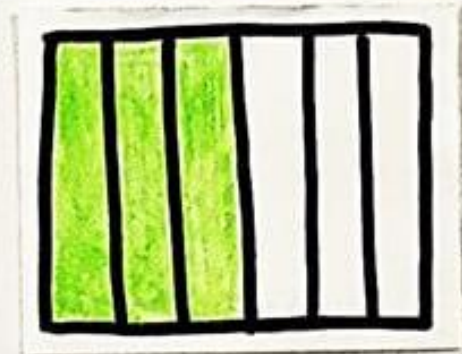
how many fit?



\div



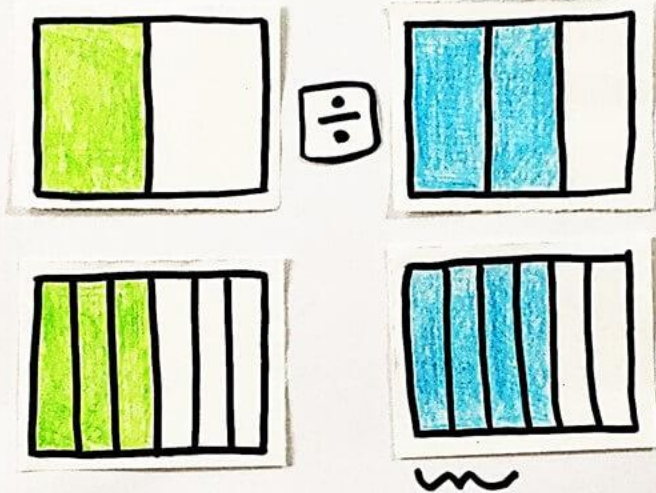
$\frac{4}{6}$



$\frac{3}{6}$

$$\frac{2}{3} \div \frac{1}{2} = 1 + \frac{1}{3} = \left(1\frac{1}{3}\right)$$

how many fit?



$$\frac{1}{2} \div \frac{2}{3} = \left(\frac{3}{4} \right)$$

L.O. Divide fractions by whole numbers

Remember that division can be interpreted as finding a fraction

($\div 2$ means halving; $\div 3$ means finding a third etc.).

$\frac{1}{3} \div 2$ can therefore be interpreted as "what is a half of $\frac{1}{3}$?"

Divide proper fractions by whole numbers
(e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$).



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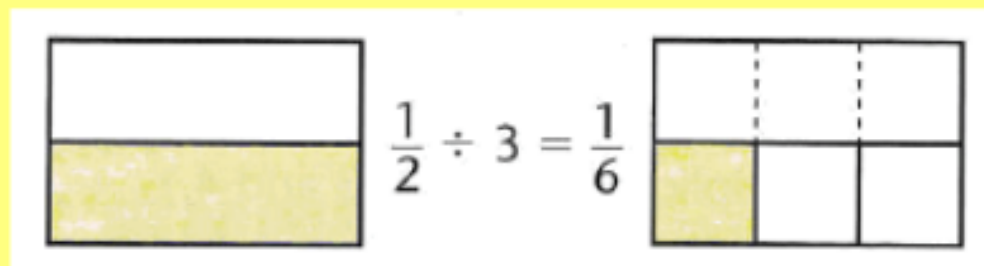
Divide proper fractions by whole numbers
(e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$).



Remember that a fraction has a decimal equivalent.

L.O. Divide fractions by whole numbers.

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



How do we calculate this?

The numerator stays the same.

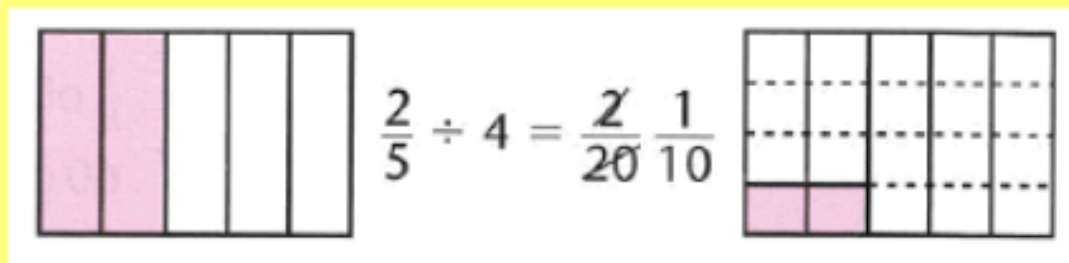
What happens to the denominator. Why?

Draw an image to help.

USE EXAMPLES THAT

HALVE FRACTIONS!!!!!!

$$\frac{2}{5} \div 4 = \frac{2}{20} =$$



$$\frac{1}{4} \div 3 =$$

$$\frac{2}{6} \div 3 =$$

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

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

A

Copy and complete.

$$1 \quad \frac{1}{2} \div 3 = \frac{1}{2 \times 3} = \frac{1}{\square}$$

$$2 \quad \frac{1}{4} \div 5 = \frac{1}{4 \times \square} = \frac{1}{\square}$$

$$3 \quad \frac{1}{6} \div 2 = \frac{1}{\square \times \square} = \frac{1}{\square}$$

$$4 \quad \frac{1}{3} \div 6 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

$$5 \quad \frac{3}{4} \div 4 = \frac{3}{4 \times 4} = \frac{3}{\square}$$

$$6 \quad \frac{2}{5} \div 3 = \frac{2}{5 \times \square} = \frac{2}{\square}$$

$$7 \quad \frac{3}{7} \div 2 = \frac{3}{\square \times \square} = \frac{3}{\square}$$

$$8 \quad \frac{5}{6} \div 6 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

Work out

$$9 \quad \frac{1}{2} \div 8$$

$$13 \quad \frac{5}{8} \div 2$$

$$10 \quad \frac{1}{5} \div 2$$

$$14 \quad \frac{2}{3} \div 5$$

$$11 \quad \frac{1}{4} \div 3$$

$$15 \quad \frac{3}{5} \div 4$$

$$12 \quad \frac{1}{10} \div 4$$

$$16 \quad \frac{4}{11} \div 3$$

B

Simplify before multiplying.

$$1 \quad \frac{3}{4} \div 9 = \frac{3^1}{4 \times 9^3} = \frac{\square}{\square}$$

$$2 \quad \frac{8}{9} \div 2 = \frac{8}{9 \times 2} = \frac{\square}{\square}$$

$$3 \quad \frac{2}{3} \div 7 = \frac{\square}{\square \times 7} = \frac{\square}{\square}$$

$$4 \quad \frac{9}{10} \div 12 = \frac{9}{\square \times \square} = \frac{\square}{\square}$$

$$5 \quad \frac{3}{5} \div 5 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

$$6 \quad \frac{6}{7} \div 8 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

$$7 \quad \frac{2}{9} \div 4 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

$$8 \quad \frac{2}{3} \div 10 = \frac{\square}{\square \times \square} = \frac{\square}{\square}$$

Work out

$$9 \quad \frac{5}{8} \div 11$$

$$13 \quad \frac{5}{6} \div 10$$

$$10 \quad \frac{9}{10} \div 6$$

$$14 \quad \frac{3}{4} \div 7$$

$$11 \quad \frac{6}{7} \div 9$$

$$15 \quad \frac{6}{11} \div 3$$

$$12 \quad \frac{4}{5} \div 12$$

$$16 \quad \frac{4}{9} \div 8$$

C

Change to an improper fraction and divide.

1 $5\frac{3}{5} \div 4$

2 $7\frac{1}{2} \div 5$

3 $2\frac{4}{7} \div 6$

4 $4\frac{3}{8} \div 7$

5 $2\frac{8}{11} \div 3$

6 $7\frac{1}{5} \div 12$

7 $3\frac{5}{9} \div 2$

8 $6\frac{2}{3} \div 8$

Work out the bracket and divide.

9 $\left(\frac{1}{5} + \frac{7}{10}\right) \div 3$

10 $\left(\frac{7}{9} - \frac{1}{3}\right) \div 2$

11 $\left(\frac{3}{4} \times \frac{1}{2}\right) \div 6$

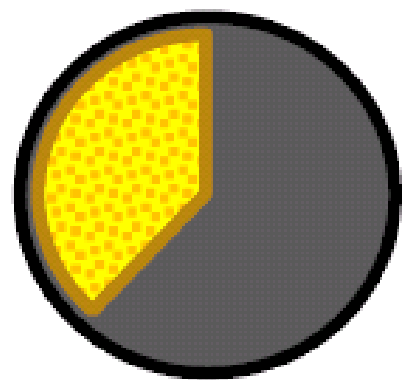
12 $\left(4\frac{8}{9} \div 11\right) \div 8$

13 $\left(\frac{2}{3} + \frac{1}{12}\right) \div 9$

14 $\left(\frac{6}{7} - \frac{2}{5}\right) \div 4$

15 $\left(\frac{2}{3} \times \frac{9}{10}\right) \div 12$

16 $\left(2\frac{5}{8} \div 7\right) \div 3$



There is one third of a pizza left over. If it was shared equally between four people what fraction of the whole pizza would each person receive?

ANSWERS

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A

1 $\frac{1}{6}$	5 $\frac{3}{16}$	9 $\frac{1}{16}$	13 $\frac{5}{16}$
2 $\frac{1}{20}$	6 $\frac{2}{15}$	10 $\frac{1}{10}$	14 $\frac{2}{15}$
3 $\frac{1}{12}$	7 $\frac{3}{14}$	11 $\frac{1}{12}$	15 $\frac{3}{20}$
4 $\frac{1}{18}$	8 $\frac{5}{36}$	12 $\frac{1}{40}$	16 $\frac{4}{33}$

B

1 $\frac{1}{12}$	5 $\frac{3}{25}$	9 $\frac{5}{88}$	13 $\frac{1}{12}$
2 $\frac{4}{9}$	6 $\frac{3}{28}$	10 $\frac{3}{20}$	14 $\frac{3}{28}$
3 $\frac{2}{21}$	7 $\frac{1}{18}$	11 $\frac{2}{21}$	15 $\frac{2}{11}$
4 $\frac{3}{40}$	8 $\frac{1}{15}$	12 $\frac{1}{15}$	16 $\frac{1}{18}$

C

1 $1\frac{2}{5}$	5 $\frac{10}{11}$	9 $\frac{3}{10}$	13 $\frac{1}{12}$
2 $1\frac{1}{2}$	6 $\frac{3}{5}$	10 $\frac{2}{9}$	14 $\frac{4}{35}$
3 $\frac{3}{7}$	7 $1\frac{7}{9}$	11 $\frac{1}{16}$	15 $\frac{1}{20}$
4 $\frac{5}{8}$	8 $\frac{5}{6}$	12 $\frac{1}{18}$	16 $\frac{1}{8}$