

Dividing a fraction by an integer



Dividing a fraction by an integer

1. Divide the fractions.

Give answers in their simplest form.

a) $\frac{1}{3} \div 2$

b) $\frac{3}{8} \div 3$

c) $\frac{4}{9} \div 8$

d) $\frac{6}{7} \div 15$

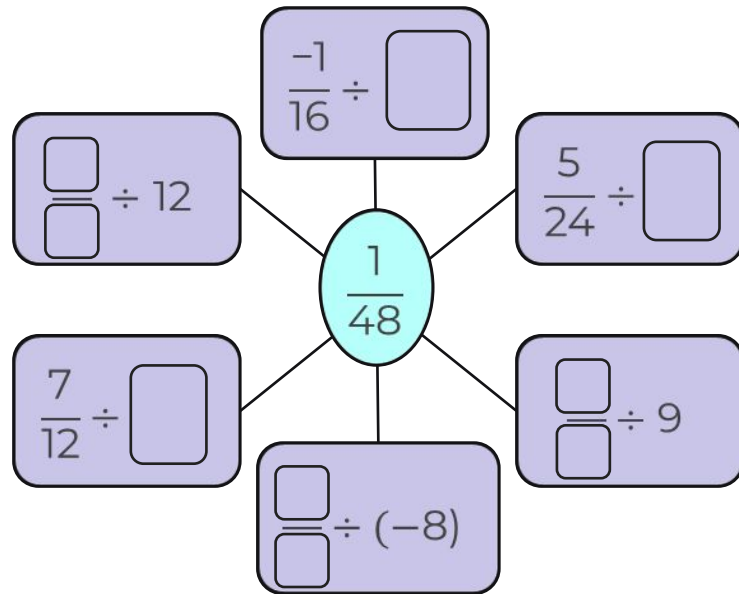
e) $-\frac{5}{12} \div 7$

f) $\frac{3}{5} \div (-8)$

g) $\frac{8}{11} \div (-4)$

h) $-\frac{4}{15} \div (-8)$

2. All the divisions have the same solution. Find the missing values.



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3. Divide the mixed numbers.

Give answers in their simplest form.

a) $1\frac{3}{8} \div 4$

b) $3\frac{5}{12} \div 3$

c) $4\frac{1}{2} \div 6$

d) $4\frac{4}{15} \div 8$

e) $-2\frac{5}{12} \div 3$

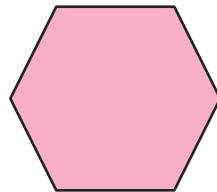
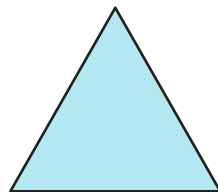
f) $3\frac{2}{15} \div (-6)$

g) $-2\frac{4}{9} \div 11$

h) $-4\frac{2}{3} \div (-7)$

4. The perimeter of all these regular shapes is $10\frac{1}{2}$ cm.

Find the side lengths.



5. Solve these equations.

$$5a = 6\frac{2}{3}$$

$$3b = -1\frac{7}{8}$$

$$-9c = -3\frac{3}{8}$$



Answers



Dividing a fraction by an integer

1. Divide the fractions.

Give answers in their simplest form.

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

b) $\frac{3}{8} \div 3 = \frac{1}{8}$

c) $\frac{4}{9} \div 8 = \frac{1}{18}$

d) $\frac{6}{7} \div 15 = \frac{2}{35}$

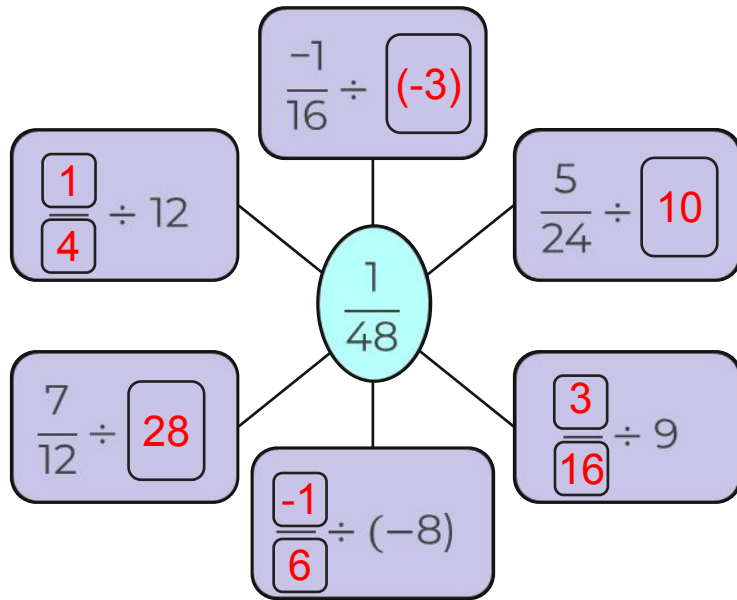
e) $-\frac{5}{12} \div 7 = -\frac{5}{84}$

f) $\frac{3}{5} \div (-8) = -\frac{3}{40}$

g) $\frac{8}{11} \div (-4) = -\frac{2}{11}$

h) $-\frac{4}{15} \div (-8) = \frac{1}{30}$

2. All the divisions have the same solution. Find the missing values.



Dividing a fraction by an integer

3. Divide the mixed numbers.

Give answers in their simplest form.

a) $1\frac{3}{8} \div 4 = \frac{11}{32}$

b) $3\frac{5}{12} \div 3 = 1\frac{5}{36}$

c) $4\frac{1}{2} \div 6 = \frac{3}{4}$

d) $4\frac{4}{15} \div 8 = \frac{8}{15}$

e) $-2\frac{5}{12} \div 3 = -\frac{29}{36}$

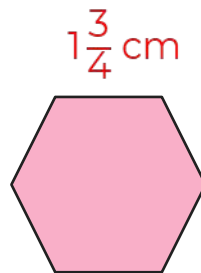
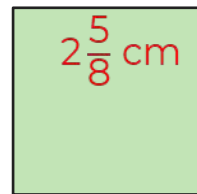
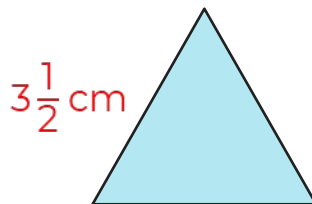
f) $3\frac{2}{15} \div (-6) = -\frac{47}{90}$

g) $-2\frac{4}{9} \div 11 = -\frac{2}{9}$

h) $-4\frac{2}{3} \div (-7) = \frac{2}{3}$

4. The perimeter of all these regular shapes is $10\frac{1}{2}$ cm.

Find the side lengths.



5. Solve these equations.

$$5a = 6\frac{2}{3}$$

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

$$3b = -1\frac{7}{8}$$

$$b = -\frac{5}{8}$$

$$-9c = -3\frac{3}{8}$$

$$c = \frac{3}{8}$$

