

Fractions of amounts

Learn and revise

Finding fractions of quantities is very similar to dividing amounts.

Example: What is $\frac{2}{3}$ of 15?

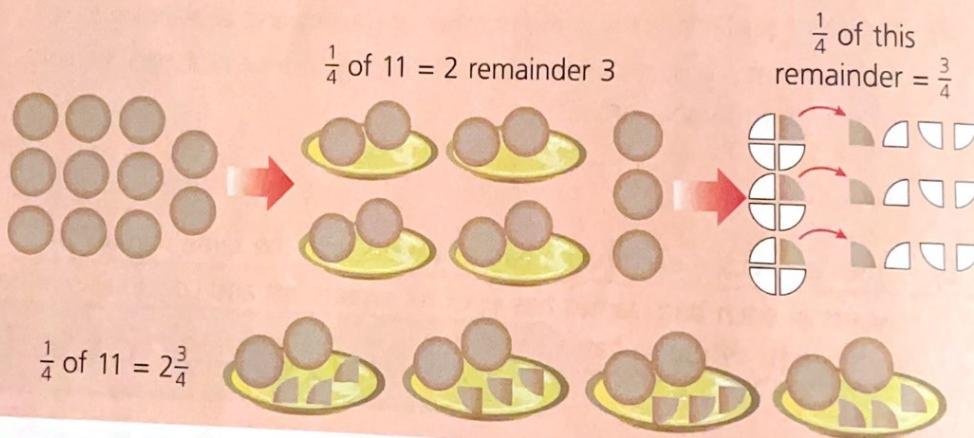
$$\frac{1}{3} \text{ of } 15 = 15 \div 3 = 5$$

$$\frac{2}{3} \text{ of } 15 = 5 \times 2 = 10$$

If the numerator is more than 1, divide the quantity by the denominator and then multiply by the numerator.

Sometimes fractions of amounts leave fraction remainders.

Example: What is $\frac{1}{4}$ of 11?



Practice activities

1. Complete each of these.

a) $\frac{2}{3}$ of...	b) $\frac{4}{5}$ of...	c) $\frac{3}{4}$ of...	d) $\frac{7}{10}$ of...
27 = ____	40 = ____	36 = ____	90 = ____
84 = ____	35 = ____	92 = ____	30 = ____
120 = ____	105 = ____	180 = ____	110 = ____
90 = ____	250 = ____	108 = ____	70 = ____

Fractions of amounts

2. Answer these, writing each remainder as a fraction.



$$\frac{1}{3} \text{ of } 8 = \underline{\hspace{2cm}}$$



$$\frac{1}{5} \text{ of } 12 = \underline{\hspace{2cm}}$$



$$\frac{1}{4} \text{ of } 10 = \underline{\hspace{2cm}}$$



$$\frac{1}{2} \text{ of } 13 = \underline{\hspace{2cm}}$$



$$\frac{1}{8} \text{ of } 12 = \underline{\hspace{2cm}}$$



$$\frac{1}{3} \text{ of } 10 = \underline{\hspace{2cm}}$$

3. Answer these.

a) What is three-quarters of £16? £

b) There are 27 children in a class and two-thirds are girls.

How many are girls?

c) What is four-fifths of 200 metres? m

d) Three-fifths of the ingredients in a cake is flour. If the total weight of the cake is 1.5 kg, what is the weight of the flour used?

e) I am thinking of a number. Three-quarters of the number is 15.

What is the number I am thinking of?

4. Which of these is the heavier weight in each pair?

a) $\frac{2}{3}$ of 3.9 kg or $\frac{3}{4}$ of 4.4 kg

b) $\frac{7}{10}$ of 4 kg or $\frac{2}{3}$ of 3600 g

c) $\frac{3}{5}$ of 4.5 kg or $\frac{7}{10}$ of 2400 g

d) $\frac{3}{4}$ of 1.2 kg or $\frac{2}{5}$ of 1.5 kg