

TARGET To find a whole quantity given the quantity represented by a unit fraction.

To find a unit fraction of a whole quantity we divide the quantity by the denominator. (Ex. 1.)

To find the whole quantity given the quantity represented by a unit fraction we use the inverse method, which is multiplication. (Ex. 2, 3 and 4.)

Example 1

$$\frac{1}{5} \text{ of } 75\text{p}$$

$$75\text{p} \div 5 = 15\text{p}$$

Answer 15p

Example 2

$$\frac{1}{5} \text{ of } \square = 15\text{p}$$

$$15\text{p} \times 5 = 75\text{p}$$

Answer 75p

Example 3

$$\frac{1}{8} \text{ of } \square = 60\text{g}$$

$$60\text{g} \times 8 = 480\text{g}$$

Answer 480 g

Example 4

$$\frac{1}{100} \text{ of } \square = 0.125 \text{ litres}$$

$$0.125 \text{ litres} \times 100 = 12.5$$

Answer 12.5 litres

A

Copy and complete.

1 $\frac{1}{5}$ of 30 = $30 \div 5 = \square$

2 $\frac{1}{8}$ of 24 = $24 \div 8 = \square$

3 $\frac{1}{4}$ of 48 = $48 \div \square = \square$

4 $\frac{1}{6}$ of 42 = $\square \div \square = \square$

5 $\frac{1}{3}$ of 30 = \square

6 $\frac{2}{3}$ of 30 = $\square \times 2 = \square$

7 $\frac{1}{9}$ of 36 = \square

8 $\frac{4}{9}$ of 36 = $\square \times 4 = \square$

9 $\frac{1}{7}$ of 56 = \square

10 $\frac{5}{7}$ of 56 = $\square \times \square = \square$

11 $\frac{1}{10}$ of 50 = \square

12 $\frac{3}{10}$ of 50 = $\square \times \square = \square$

Work out

13 $\frac{3}{8}$ of 80

17 $\frac{2}{11}$ of 33

14 $\frac{4}{5}$ of 45

18 $\frac{5}{6}$ of 30

15 $\frac{5}{12}$ of 72

19 $\frac{7}{10}$ of 90

16 $\frac{3}{4}$ of 32

20 $\frac{6}{7}$ of 28

B

Copy and complete.

1 $\frac{1}{4}$ of $\square = 6\text{p}$

2 $\frac{1}{3}$ of $\square = 12\text{ cm}$

3 $\frac{1}{9}$ of $\square = 5 \text{ litres}$

4 $\frac{1}{10}$ of $\square = 400\text{ m}$

5 $\frac{1}{5}$ of $\square = 0.7\text{ cm}$

6 $\frac{1}{8}$ of $\square = 90\text{ ml}$

7 $\frac{1}{12}$ of $\square = \text{£}11$

8 $\frac{1}{7}$ of $\square = 60\text{g}$

9 $\frac{1}{6}$ of $\square = 24\text{ m}$

10 $\frac{1}{11}$ of $\square = \text{£}0.90$

11 $\frac{1}{3}$ of $\square = 2400\text{ km}$

12 $\frac{1}{100}$ of $\square = 100\text{ g}$

13 Asif has read 56 pages of his book. This is one third of the book. How many pages does it have altogether?

14 Colleen has painted 4.8 m of a fence. This is one sixth of the fence's length. How long is the fence?

C

Copy and complete.

1 $\frac{5}{6}$ of $\square = 400\text{ ml}$

2 $\frac{3}{10}$ of $\square = \text{£}3000$

3 $\frac{4}{7}$ of $\square = 4.8\text{ kg}$

4 $\frac{7}{12}$ of $\square = 56\text{p}$

5 $\frac{8}{9}$ of $\square = 720\text{ km}$

6 $\frac{2}{5}$ of $\square = 2.4 \text{ litres}$

7 $\frac{9}{11}$ of $\square = \text{£}1.08$

8 $\frac{7}{8}$ of $\square = 2800\text{ ml}$

9 $\frac{3}{4}$ of $\square = 0.27\text{ kg}$

10 $\frac{2}{3}$ of $\square = 1.4\text{ cm}$

11 $\frac{5}{1000}$ of $\square = 0.015\text{ kg}$

12 $\frac{11}{12}$ of $\square = 880\text{ m}$

13 Four ninths of the visitors to a museum are children. 348 children visited the museum. How many people visited the museum?

14 Three eighths of a cake has been eaten. 375 g is left. What was the weight of the whole cake?