

TARGET To solve problems involving the calculation of percentages of amounts.

Examples

10% of 800 m

$\frac{1}{10}$ of 800 m

$800 \text{ m} \div 10$

80 m

30% of 800 m

$(10\% \text{ of } 800 \text{ m}) \times 3$

$80 \text{ m} \times 3$

240 m

5% of 800 m

$(10\% \text{ of } 800 \text{ m}) \div 2$

$80 \text{ m} \div 2$

40 m

75% of 800 m

$\frac{3}{4}$ of 800 m

$(800 \text{ m} \div 4) \times 3$

$200 \text{ m} \times 3$

600 m

A

Find 10% of:

1 30

5 150

2 80

6 200

3 50

7 420

4 100

8 500.

Find 10% of:

9 40p

13 £2.00

10 70p

14 £4.60

11 £1.00

15 £12.00

12 £1.80

16 90p.

Find 10% of:

17 20 cm

21 1 m

18 60 cm

22 5 m

19 400 g

23 1 kg

20 1000 g

24 3 kg.

25 There are 240 trees in a wood. 10% are oak trees. How many oak trees are there in the wood?

26 A fridge costs £450. In a sale there is 10% off. What is the new price?

B

For each of the following amounts find:

a) 10% b) 5% c) 20%.

1 £2.00

3 3 kg

2 500 ml

4 15 m

Find:

5 20% of 300

6 70% of 250

7 30% of 600

8 60% of 25

9 5% of 500 g

10 5% of 2 kg

11 5% of 380 ml

12 5% of 8 litres

13 Toyah makes 5 litres of soup. 70% is used. How much is left?

14 There are 140 rooms in a hotel. 20% have been decorated since the hotel opened. How many have not been redecorated?

15 A tracksuit costs £25. The price goes up by 5%. What is the new price?

C

Find:

1 1% of £240

2 4% of £8

3 25% of 34 cm

4 15% of 2 m

5 11% of 500 g

6 15% of 4 kg

7 99% of 10 litres

8 95% of 600 ml

Copy and complete:

9 10% of = 25

10 20% of = 7

11 90% of = 18

12 25% of = 13

13 1% of = 1.4

14 2% of = 0.8

15 5% of = 12

16 75% of = 360

17 Latrice has £15 000 in a savings account at the start of the year. How much will she have in her account at the end of the year if the annual interest rate is:

a) 1% b) 5% c) 7.5%