

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%?