TARGET To calculate fractions and percentages of quantities.

Examples

$\frac{1}{7}$ of £630	$\frac{3}{7}$ of £630	10% of 25 m	60% of 25 m	5% of 25 m
£630 ÷ 7	$\left(\frac{1}{7}\text{ of £630}\right) \times 3$	$\frac{1}{10}$ of 25 m	(10% of 25 m) × 6	(10% of 25 m) ÷ 2
£90	£90 × 3	2·5 m	2·5 m × 6	2·5 m ÷ 2
	£270		15 m	1·25 m

A

Find

1. $\frac{1}{4}$ of 28
2. $\frac{1}{3}$ of 24
3. $\frac{1}{5}$ of 30p
4. $\frac{1}{8}$ of 40 mm
5. $\frac{1}{6}$ of 48 kg

6. $\frac{2}{3}$ of 18
7. $\frac{3}{4}$ of 36
8. $\frac{5}{6}$ of 30 cm
9. $\frac{2}{5}$ of 35 g
10. $\frac{3}{7}$ of £21

11. 10% of 50
12. 10% of 120
13. 10% of £2
14. 10% of £3·20
15. 10% of 1 m

16. 20% of 40
17. 30% of 70
18. 50% of 34 cm
19. 25% of 32 km
20. 20% of 25p

B

Work out

1. $\frac{2}{3}$ of 600 g
2. $\frac{5}{8}$ of 72 cm
3. $\frac{7}{10}$ of 500 ml
4. $\frac{4}{5}$ of 60p
5. $\frac{6}{7}$ of 42 kg
6. $\frac{3}{4}$ of 120 km
7. $\frac{2}{9}$ of £45
8. $\frac{5}{6}$ of 54 m

9. 30% of £250
10. 25% of 30 m
11. 40% of 75 kg
12. 5% of 80p
13. 90% of 360 ml
14. 75% of 160 km
15. 60% of 55 cm
16. 5% of 10 g

17. Seventy-five per cent of a bag of sand has not been used. 4·5 kg has been used. How much sand was in the full bag?

18. Darnell has £160. He spends three eighths of his money in one shop and 30% of it in another. How much has he spent?

19. One 150 ml glass of drink is 5% of the amount in a jug. How much drink is in the full jug?

20. Shannon is cycling 70 km. She rides a quarter of the distance in the first hour and 20% in the second hour. How far has she cycled?

C

Work out

1. $\frac{4}{5}$ of £6·00
2. $\frac{33}{100}$ of 1 kg
3. $\frac{5}{9}$ of £126
4. $\frac{9}{20}$ of 400 g
5. $\frac{3}{8}$ of 96 cm
6. $\frac{13}{15}$ of 120
7. $\frac{9}{25}$ of 1 km
8. $\frac{7}{12}$ of 600 ml

9. 1% of 500 g
10. 3% of 150 m
11. 5% of 1·8 kg
12. 15% of £2·20
13. 75% of 42 cm
14. 2·5% of £7·20
15. 95% of £3·00
16. 99% of £68·00

17. Kizzy's bank account pays 4% interest. She has £640 in the account. How much interest will she earn?

18. A builder mixes 4·8 kg of materials to make concrete. 55% is gravel, 30% is sand and the rest is cement. How much does he use of each material?

19. Paul uses 5 litres of water washing up. This is 2% of the total amount of water he uses in a day. How much water does he use daily?

20. Pattie earns £800 per week. She receives a raise of 7·5%. How much does she now earn?