

62

1 Lorry 12 096 mm, car 4125 mm, bus 9703 mm

- 2 (a) 1842 m (b) 638 ml (c) 7001 g (d) 5287 kg
 (e) 3·474 km (f) 0·369 m (g) 2·05 ℓ (h) 6·509 kg

3 (a) engine oil: 2·8 ℓ screen wash: 3·975 ℓ
 (b) engine oil: 1·8 ℓ screen wash: 3·125 ℓ

- 4 (a) 0·1 (b) 0·9 (c) 0·5 (d) 0·2
 (e) 0·25 (f) 0·75 (g) 0·01 (h) 0·03
 (i) 0·75 (j) 0·001 (k) 0·467 (l) 0·074

5 (a) 0·125 (b) 0·275 (c) 0·1875 (d) 0·333...
 (e) 0·111... (f) 0·444...

6 (a) $\frac{3}{8} = 0·375$, $\frac{2}{5} = 0·4$; $\frac{2}{5}$ is larger(b) $\frac{9}{10} = 0·9$, $\frac{8}{9} = 0·888\dots$; $\frac{9}{10}$ is larger(c) $\frac{2}{7} = 0·285\dots$, $\frac{1}{3} = 0·333\dots$; $\frac{1}{3}$ is larger7 $\frac{5}{8}$, $\frac{13}{20}$, $\frac{2}{3}$, $\frac{27}{40}$ **63**1 (a) $\frac{15}{100}$, 15% (b) $\frac{96}{100}$, 96% (c) $\frac{10}{50}$ (or $\frac{1}{5}$), 20% (d) $\frac{7}{10}$, 70%(e) $\frac{3}{6}$ (or $\frac{1}{2}$), 50% (f) $\frac{16}{20}$, 80% (g) $\frac{2}{5}$, 40% (h) $\frac{3}{4}$, 75%**64**1 (a) $\frac{31}{100}$, 31% (b) $\frac{30}{60}$ (or $\frac{1}{2}$), 50% (c) $\frac{20}{200}$ (or $\frac{1}{10}$), 10%(d) $\frac{100}{500}$ (or $\frac{1}{5}$), 20% (e) $\frac{7}{100}$, 7% (f) $\frac{50}{1000}$ (or $\frac{1}{20}$), 5%

2 (a) 5% (b) 40% (c) 20%

- 3 (a) 3 (b) 20 (c) 250
 (d) 28 (e) 27 (f) 28
 (g) 16 (h) 120 (i) 60

4 Quench 480 ml, Koolora 450 ml, Sunfresh 490 ml

5 25% is soil

6 40 kg fertiliser
 160 kg compost
 100 kg sand

65

- 1 (a) 10% (b) 20% (c) 75%
 (d) 25% (e) 20% (f) 50%
 (g) 40% (h) 5% (i) 34%

2 (a) 4 (b) 250 m

(c) £75 (d) £1·50

(e) 1·2 m (f) 150 stamps

(g) 3·5 kg (h) 10 ℓ

3 (a) 4 (b) 9 (c) 26

(d) 200 (e) 3 (f) 110

66

1 (a) 15% (b) 30% (c) 91% (d) 35% (e) 6% (f) 18%

2 (a) 0·43, $\frac{43}{100}$ (b) 32%, 0·32 (c) 70%, $\frac{7}{10}$ (d) 60% or 0·6 (e) 0·08 or $\frac{8}{100}$ (f) 12% or $\frac{12}{100}$

3 (a) 0·65 (b) 27%

4 (a) $\frac{4}{10}$ (b) 0.8 (c) 2.2 (d) 20%

5 (a) T (b) F (c) F (d) T

6 (a) $\frac{3}{4}$, 0.6, 55% (b) 24%, $\frac{4}{20}$

7 9%, 0.9, 99%, 9, 99

8 (a) 0.3, $\frac{35}{100}$, 40% (b) $\frac{14}{100}$, 10%, $\frac{8}{100}$, 0.06

67

1 16 are boys

2 £21

3 200 children

4 12 games

5 Jamie 75%, Roz 74%

6 £109. Most expensive item eligible for $\frac{1}{2}$ price is the sweater (£20).

Use 10% voucher on the jeans, as they are the most expensive item.

Use the £6 off voucher on either the shorts or the gloves.

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1 (a) 0.7 kg, 700 g (b) 0.1 kg, 100 g

(c) 1.7 kg, 1700 g (d) 2.5 kg, 2500 g

2 A 100 g, 0.1 kg E 300 g, 0.3 kg

B 600 g, 0.6 kg F 900 g, 0.9 kg

C 1000 g, 1 kg G 1300 g, 1.3 kg

D 1600 g, 1.6 kg H 1900 g, 1.9 kg

3 Pupil's own answers.

4 Pupil's own answers.

69

1 Pupil's own answers.

2 Pupil's own answers.

3 (a) 1250 g (b) 3125 g (c) 4568 g (d) 2379 g

4 (a) 5 kg 482 g (b) 7 kg 634 g (c) 9 kg 513 g (d) 6 kg 747 g

5 (a) 7132 g (b) 8 kg 716 g (c) 4303 g (d) 6 kg 948 g

(e) 1255 g (f) 5 kg 681 g (g) 2569 g (h) 9 kg 74 g

70

1 (a) 11 950 kg (b) 34 750 kg (c) 4500 kg

2 (a) 5 tonnes 900 kg (b) 3 tonnes 300 kg (c) 13 tonnes 950 kg

3 Weight of passengers is 3×1 tonne = 3 tonnes = 3000 kg

Weight of bus = 8 tonnes 500 kg = 8500 kg

Total weight = 11 500 kg

4 Weight of truck 5 tonnes

4 bags of gravel 2 tonnes

100 paving slabs 2 tonnes

20 sleepers 1 tonne 800 kg

Total weight 10 tonnes 800 kg

5 Practical work.