

## 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)  $\frac{9}{10} = 0·9$ ,  $\frac{8}{9} = 0·888....$ ;  $\frac{9}{10}$  is larger

(c)  $\frac{2}{7} = 0·285....$ ,  $\frac{1}{3} = 0·333....$ ;  $\frac{1}{3}$  is larger

7  $\frac{5}{8}$ ,  $\frac{13}{20}$ ,  $\frac{2}{3}$ ,  $\frac{27}{40}$

## 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.

## 68

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.

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## 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  $3 \times 1$  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
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Total weight	10 tonnes 800 kg

5 Practical work.