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1 2·37 **2** 26·6 **3** 1·19 **4** 33·5 **5** 4·15 **6** 57·2 **7** 11·4 **8** 54·2 **9** 34·7 **10** 13·3 **11** 17·5 **12** 12·6 **13** 13·7 m **14** £38·37 **15** 18·1 kg **16** 3·75 litres

B

1 31·57 **2** 1·814 **3** 14·161 **4** 39·55 **5** 1·546 **6** 57·12 **7** 1·318 **8** 28·936 **9** 1·325 **10** 65·979 **11** 58·05 **12** 1·495 **13** 47·25 litres **14** 363·58 km **15** 0·67 litres

C

1 5·675 **2** 3·115 **3** 52·69 **4** 1·936 **5** 75·586 **6** 13·465 **7** 3·889 **8** 4·558 **9** 2·965 **10** 6·846 **11** 1·872 **12** 46·438 **13** 0·367 km **14** 1·794 kg

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1 a) $\frac{1}{10}$ **b)** 0·1 **c)** 10%
2 a) $\frac{3}{100}$ **b)** 0·03 **c)** 3%
3 a) $\frac{4}{10}$ **b)** 0·4 **c)** 40%
4 a) $\frac{8}{100}$ **b)** 0·08 **c)** 8%

5

Fraction	Decimal	%age
$\frac{1}{10}$	0·1	10%
$\frac{1}{2}$	0·5	50%
$\frac{1}{100}$	0·01	1%
$\frac{3}{10}$	0·3	30%
1	1·0	100%
$\frac{1}{4}$	0·25	25%
$\frac{6}{10}$	0·6	60%
$\frac{17}{100}$	0·17	17%
$\frac{9}{10}$	0·9	90%
$\frac{3}{4}$	0·75	75%

6 50% **7** 25% **8** 7% **9** 75% **10** 70%

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B

1 $\frac{1}{4}$, 0·25, 25%
2 $\frac{9}{10}$, 0·9, 90%
3 $\frac{64}{100}$, 0·64, 64%
4 $\frac{38}{100}$, 0·38, 38%
5 $\frac{3}{5}$, 0·6, 60%
6 $\frac{1}{2}$, 0·5, 50%
7 $\frac{7}{100}$, 0·07, 7%
8 $\frac{72}{100}$, 0·72, 72%
9 $\frac{7}{10}$, 0·7, 70%
10 $\frac{1}{5}$, 0·2, 20%
11 $\frac{19}{100}$, 0·19, 19%
12 $\frac{97}{100}$, 0·97, 97%
13 $\frac{3}{4}$. 0·75. 75%
14 $\frac{3}{10}$, 0·3, 30%
15 $\frac{4}{100}$, 0·04, 4%
16 $\frac{53}{100}$, 0·53, 53%

C

1 0·3, 30%
2 0·79, 79%
3 0·5, 50%
4 0·7, 70%
5 0·8, 80%
6 0·75, 75%
7 0·2, 20%
8 0·25, 25%
9 0·05, 5%
10 0·8, 80%
11 0·78, 78%
12 0·84, 84%
13 $\frac{1}{10}$, 0·1
14 $\frac{1}{100}$, 0·01
15 $\frac{4}{10}$, 0·4
16 $\frac{3}{4}$, 0·75
17 $\frac{47}{100}$, 0·47
18 $\frac{9}{10}$, 0·9
19 $\frac{1}{4}$, 0·25
20 $\frac{3}{100}$, 0·03
21 $\frac{3}{5}$, 0·6
22 $\frac{1}{2}$, 0·5
23 $\frac{1}{25}$, 0·04
24 $\frac{3}{20}$, 0·15
25 83%
26 15%
27 28%
28 56%

5

Item	Total made	Sold	%age sold	%age unsold
Loaves	100	83	83%	17%
Rolls	200	154	77%	23%
Pies	25	14	56%	44%
Pasties	20	13	65%	35%
Cakes	50	46	92%	8%

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1 True **2** False **3** True **4** True **5** False **6** True **7** True **8** False **9** True **10** True. **11** False **12** False

13 $\frac{6}{10} = 0·6$ $\frac{12}{100} = 0·12$
$\frac{34}{100} = 0·34$ $\frac{6}{100} = 6\%$
$\frac{1}{2} = 50\%$ $\frac{3}{4} = 75\%$

B

1 $\frac{32}{100}$
2 $\frac{1}{2}$
3 $\frac{7}{10}$
4 $\frac{65}{100}$
5 $\frac{1}{4}$
6 $\frac{8}{100}$
7 $\frac{1}{5}$
8 $\frac{47}{100}$
9 0·74
10 0·71
11 0·4
12 0·09
13 0·54
14 0·5
15 0·86
16 0·9
17 15%
18 30%
19 25%
20 68%
21 2%
22 10%
23 75%
24 99%
25 0·57
26 0·45
27 0·73
28 0·19
29 85%
30 28%
31 34%
32 52%

C

1 0·16 61% $\frac{66}{100}$
2 15% $\frac{1}{5}$ 0·5
3 0·166 $\frac{6}{10}$ 61%
4 40% 0·43 $\frac{3}{4}$
5 $\frac{3}{8}$ 38% 0·8
6 $\frac{2}{10}$ 0·201 21%
7 0·14 $\frac{1}{4}$ 41%
8 9% $\frac{1}{9}$ 0·19
9 70%
10 56%
11 99%
12 20%
13 0·75
14 0·3
15 0·42
16 0·07

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1 2 **2** 7 **3** 50 **4** 14 **5** 80 **6** 30 **7** 24 **8** 90 **9** 65 **10** 41 **11** 8p **12** 3p **13** 20p **14** 75p **15** 49p **16** 17p **17** £1·70 **18** 2p **19** 56p **20** 81p **21** 6 mm **22** 9 kg **23** 40 ml **24** 11 cm **25** 83 m **26** 70 g **27** 35 ml **28** 28 km **29** 49 m **30** 12 kg **31** 765 g

B

1 30, 60 **2** 9, 18 **3** 48p, 96p **4** 62 m, 124 m **5** 14, 42 **6** 210, 630 **7** 70 ml, 210 ml **8** £1·25, £3·75 **9** 8, 24 **10** 150, 450 **11** £1·20, £3·60 **12** 2·5 m, 7·5 m **13** 32 **14** 9 **15** 1400 **16** 16 **17** 2 **18** 180 g **19** £3·60 **20** 27p **21** 720 ml **22** 50p

C

1 a) £22·50 **b)** £23·75 **c)** £21·25
2 a) £2·88 **b)** £3·04 **c)** £2·72
3 a) £63·00 **b)** £66·50 **c)** £59·50
4 a) £8·82 **b)** £9·31 **c)** £8·33
5 a) £54 **b)** £5·40 **c)** £16·20
6 a) £190 **b)** £19 **c)** £57
7 a) £1000 **b)** £100 **c)** £300
8 a) £21·60 **b)** £2·16 **c)** £6·48
9 58 **10** 0·2 **11** 6930 **12** 1·8 **13** £1·58 **14** £3·85 **15** 570 g **16** 70 ml **17** 45 ml **18** 60 g **19** 108 m **20** £6300

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1 0·8 cm **2** 1·3 cm **3** 75 mm **4** 2 mm **5** 0·3 m **6** 2 m **7** 60 cm **8** 170 cm **9** 0·4 km **10** 5·9 km **11** 800 m **12** 6500 m **13** 9 kg **14** 4·1 kg **15** 700 g **16** 8200 g **17** 1·3 litres **18** 0·6 litres **19** 3000 ml **20** 7600 ml

B

1 2·4 cm **2** 60·1 cm **3** 59 mm **4** 186 mm **5** 4·72 m **6** 0·95 m **7** 313 cm **8** 8 cm **9** 1·16 km **10** 0·03 km **11** 840 m **12** 3020 m **13** 0·65 kg **14** 9·28 kg **15** 10 g **16** 960 g **17** 0·07 litres **18** 4·13 litres **19** 790 ml **20** 8540 ml

C

1 0·983 m **2** 5·841 m **3** 27 mm **4** 306 mm **5** 0·01 m **6** 34·2 m **7** 7000 cm **8** 6518 cm **9** 0·054 km **10** 2·106 km **11** 673 m **12** 9 m **13** 1·297 kg **14** 0·032 kg **15** 5 g **16** 4068 g **17** 0·983 litres **18** 5·841 litres **19** 27 ml **20** 306 ml

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A

1 2 cm, 20 mm
7 cm, 70 mm
2 4 cm, 40 mm
7·5 cm, 75 mm
3 0·5 litres, 500 ml
1·6 litres, 1600 ml
4 4 litres, 4000 ml
6·5 litres, 6500 ml
5 3 kg, 3000 g
5·5 kg, 5500 g
6 1·2 kg, 1200 g
1·8 kg, 1800 g
7 2·5 m, 250 cm
6 m, 600 cm
8 0·4 m, 40 cm
0·8 m, 80 cm

B

1 1·5 cm, 7 cm
15 mm, 70 mm
2 0·6 cm, 1·3 cm
6 mm, 13 mm
3 0·45 litres, 0·8 litres
450 ml, 800 ml
4 0·6 litres, 0·9 litres
600 ml, 900 ml
5 0·75 kg, 2·25 kg
750 g, 2250 g
6 0·06 kg, 0·14 kg
60 g, 140 g
7 200 m, 600 m
0·2 km, 0·6 km
8 2000 m, 3750 m
2 km, 3·75 km

C

1 0·25 m, 1·75 m
250 m, 1750 m
2 0·35 m, 0·65 m
35 cm, 65 cm
3 0·05 litrs, 0·425 litres
50 ml, 425 ml
4 0·02 litres, 0·055 litres
20 ml, 55 ml
5 0·38 kg, 0·52 kg
380 g, 520 g
6 0·12 kg, 0·28 kg
120 g, 280 g
7 0·3 km, 0·9 km
300 m, 900 m
8 3·125 km, 4·325 km
3125 m, 4325 km

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1 yards **2** ounces **3** miles **4** gallons **5** feet **6** pounds **7** pints **8** inches **9** 25 cm **10** 1·2 litres **11** 4·8 km **12** 2 kg **13** 180 cm **14** 9 litres **15** 240 g **16** 1·8 m **17** 10 cm **18** 6 litres **19** 6·6 lb **20** 8 km

B

1 200 yards **2** 16 gallons **3** 2 ounces **4** 10 feet **5** 5 kg **6** 18 m **7** 9 litres **8** 20 cm **9** 160 km **10** 300 g **11** 13·5 litres **12** 3·6 m **13** 220 lb **14** 27·5 cm **15** 300 ml **16** 2·5 miles

C

1 30 cm **2** 22 500 litres **3** 88 km **4** 480 g **5** 22·5 m **6** 1·5 litres **7** 2·5 kg **8** 54 m **9** 405 litres **10** 320 km **11** 7·5 g **12** 22·5 cm **13 a)** 31·5 litres **b)** 225 litres **c)** 2·4 litres **d)** 12·6 litres **14 a)** 134·4 km **b)** 30·4 km **c)** 2·7 km **d)** 0·45 km