A | Answer

1 $67 + 54 - 21 =$ ... 100

2 $540 \div (9 \div 9) =$ ... 540

3 $2.5 \times 10^2 =$ ... 250

4 Write 31.5% as a decimal. ... 0.315

5 Express $\frac{1}{2}$ of 24% as a decimal. ... 0.12

6 $0.2 \times 0.2 =$ ... 0.04

7 $(3.6 \div 1.2) \times (3.6 + 1.2) =$ ... 14.4

8 Approximate 623 to the nearest 10. ... 620

9 Work out correct to the nearest tenth. 0.72×2.7 ... 1.9

10 If $a = 4$, find the value of $2a + 5$. ... 13

11 $2x + 22 = 30$ so $x =$ ... 4

12 Write down the smallest number that will divide exactly by both 6 and 9. ... 18

B | Answer

1 £2.10 ÷ 5 = ... 42p

2 A jacket costing £24 is reduced by 20%. How much do I pay? ... £19.20

3 Change 2055g to kilograms. ... 2.055kg

4 $1.435m \times 6$ = 8m 610mm
   = 8.61m

5 In which millennium was the year 1935? ... 2nd millennium

6 How long will it take to drive 600km travelling at 80km/h? ... 7h 30min

7 Find the perimeter of a semicircle of diameter 10cm.
   $\pi = 3.14$ ... 25.7cm

8 Find the area of a parallelogram with a base measuring 24.4cm and a height of 50cm. ... 1220cm²

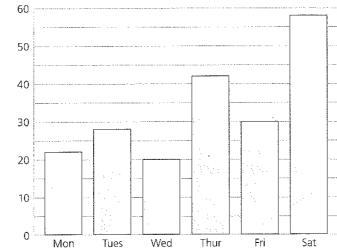9 The word MERCHANT is painted on the outside of a glass door. Which letters look the same from the inside of the door? ... M H A T

10 Approximate 2888ml to the nearest litre. ... 3l

C | Answer

The graph shows the number of rucksacks sold in one week by a sports shop. The average price of a rucksack sold by the shop is £8.50.

Number of rucksacks sold

1 How many rucksacks were sold on Friday? ... 30

2 How much money did the shop take from rucksack sales on Friday? ... £255

3 Which day had the lowest number of sales? ... Wednesday

4 What were the shop's takings from rucksacks on that day? ... £170

5 What was the largest number of rucksacks sold on one day? ... 58

6 On which day did sales increase the most as compared with sales on the day before? ... Saturday

7 What was the total number of rucksacks sold in the week? ... 200

8 How much money did the shop take from rucksacks in the week? ... £1700

9 What was the mean (average) number of rucksacks sold each day during the week? Give your answer to the nearest whole one. ... 33

10 What percentage of the total weekly sales of rucksacks took place on Saturday? ... 29%

11 On which day did the shop sell exactly 15% of the weekly total? ... Friday

12 What percentage of the total weekly sales took place on the last three days of the week? ... 65%

A | Answer

1 $1760 - 880 =$ ... 880

2 $85 \div 15 =$ ... 5 r 10

3 $\frac{4}{6} \times \frac{3}{10} =$ ... $\frac{1}{5}$

4 Write the following in order of size, smallest first:
   $\frac{2}{3}$, 23%, 2.3 ... 23% $\frac{2}{3}$ 2.3

5 What is 7.5% of 400? ... 30

6 $0.5 \times 0.6 =$ ... 0.3

7 $1.05 + (2.4 \times 1.5) =$ ... 4.65

8 Approximate 5270 to the nearest 100. ... 5300

9 Work out correct to one decimal place. $5.271 + 1.527$ ... 6.8

10 If $m = 7$, find the value of $2m + 5$. ... 19

11 $3x + 7 = 10$ so $x =$ ... 1

12 Write down the largest number that will divide exactly into both 24 and 32. ... 8

B | Answer

1 $6.50 ÷ 5 =$ ... $1.30

2 A t-shirt costing £8 is reduced by 15%. How much do I save? ... £1.20

3 Change 1470m to kilometres. ... 1.47km

4 $6.2m - 558cm$ = 62cm
   = 0.62m

5 In which century was the year 1066? ... 11th century

6 A 6.5cm line is enlarged by the scale factor 4. What is the length of the new line in millimetres? ... 260mm

7 Find the circumference of a wheel of radius 3cm.
   $\pi = 3.14$ ... 18.84cm

8 The smallest angle of a parallelogram is 50°. What size is the largest angle? ... 130°

9 Which letters of the word CHALK have either a vertical axis of symmetry, or a horizontal axis of symmetry, but not both? ... C A K

10 Approximate 188min to the nearest hour. ... 3h

C | Answer

The Wilson family get a fares list and timetable to plan some trips.

Fares Destination	Dep. code	Adult	Child	Return time
Nottingham	D	£4.95	£3.95	16:45
Skipton	B	£5.50	£4.80	18:00
Whitby	A	£5.85	£4.75	16:30
Haworth	C	£4.75	£3.85	16:30
York	E	£4.45	£3.95	16:00

Timetable	Departure code				
From	A	B	C	D	E
Barnsley	08:30	09:00	10:00	09:20	10:30
Dewsbury	08:50	09:50	10:50	08:30	10:50
Doncaster	–	08:30	09:30	09:50	–
Ossett	09:00	09:40	10:40	08:40	11:00
Wakefield	09:10	09:30	10:30	08:50	11:10

1 How much will it cost for Dad to take his two children to York? ... £12.35

2 At what time does the York coach depart from Barnsley? ... 10:30

3 Where does the York coach next pick up after leaving Dewsbury? ... Ossett

4 At what time is the last pick up point before going on to York? ... 11:10

5 If the coach takes 45 minutes to travel from Wakefield to York, at what time will it arrive at York? ... 11:55

6 At what time does the coach set off from York on its return? ... 16:00

7 How long do passengers have to visit York? ... 4h 5min

8 At what time does the Skipton coach leave Doncaster? ... 08:30

9 Where does the Skipton coach make its last pick up? ... Dewsbury

10 Where does the Nottingham coach begin its journey? ... Dewsbury

11 How long after leaving Doncaster does the Haworth coach make its last pick up? ... 1h 20min

12 Grandma gets a 50p reduction on the adult fare. How much will it cost for her and her grandson to go to Whitby? ... £10.10