

Procedural Revision

9

Year 7

Q1 Number Facts

Work out:

$$146 - 78 = 68$$

Q2 Number Facts

$$\boxed{280} \div \boxed{? \ 7} = \boxed{40}$$

$$28 \div 7 = 4$$

so $280 \div 7 = 40$

Q3 Number Facts

What number is half a million?

500 000

Q4 Fractions, Decimals & Percentages

$$10\% = \pounds 3$$
$$20\% = \pounds 6$$

Sale price

$$\pounds 30 - \pounds 6$$
$$= \pounds 24$$



What is the sale price?

Q5 Fractions, Decimals & Percentages

$$\frac{1}{8}$$

Fraction

=

$$0.125$$

Decimal

=

$$12.5\%$$

Percentage

Q6 Fractions, Decimals & Percentages

Write in order.

0.3 $\frac{1}{5}$ 50% 0.05

0.05

smallest

$\frac{1}{5}$

0.2

0.3

50%

largest

0.5

Q7 Mental & Written Methods

Work out:

$$5 \div 0.2 = 25$$

$$5 \times 5 = 25$$

Remember

$$5 \times 0.2 = 1$$

$\div 0.2$ is the same as $\times 5$

Q8 Mental & Written Methods - BIDMAS

Work out:

$$15 - (3 + \underline{5 \times 2})$$

$$= 15 - (3 + 10)$$

$$= 15 - 13$$

$$= 2$$

Q9 Mental & Written Methods

Fill in the missing decimal:

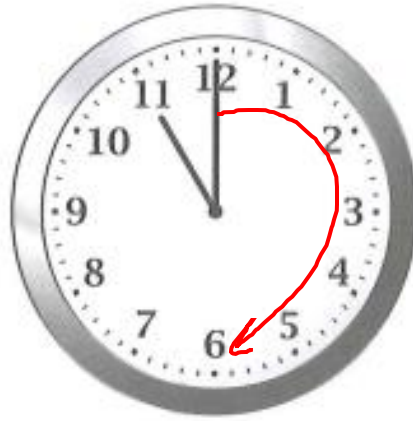
$$\boxed{15} \div \boxed{} = \boxed{30}$$

Q10 Estimate & Check

Round 423.5654 to 2 decimal places

Q11 Angles & Bearings

The clock shows 11:00



180°
Half turn

What time will it show when the **minute** hand has turned through 180°

11 : 30

Q12 Money

Megan buys juice and biscuits.



$$\begin{array}{r} 1.47 \\ + 2.36 \\ \hline 3.83 \end{array}$$

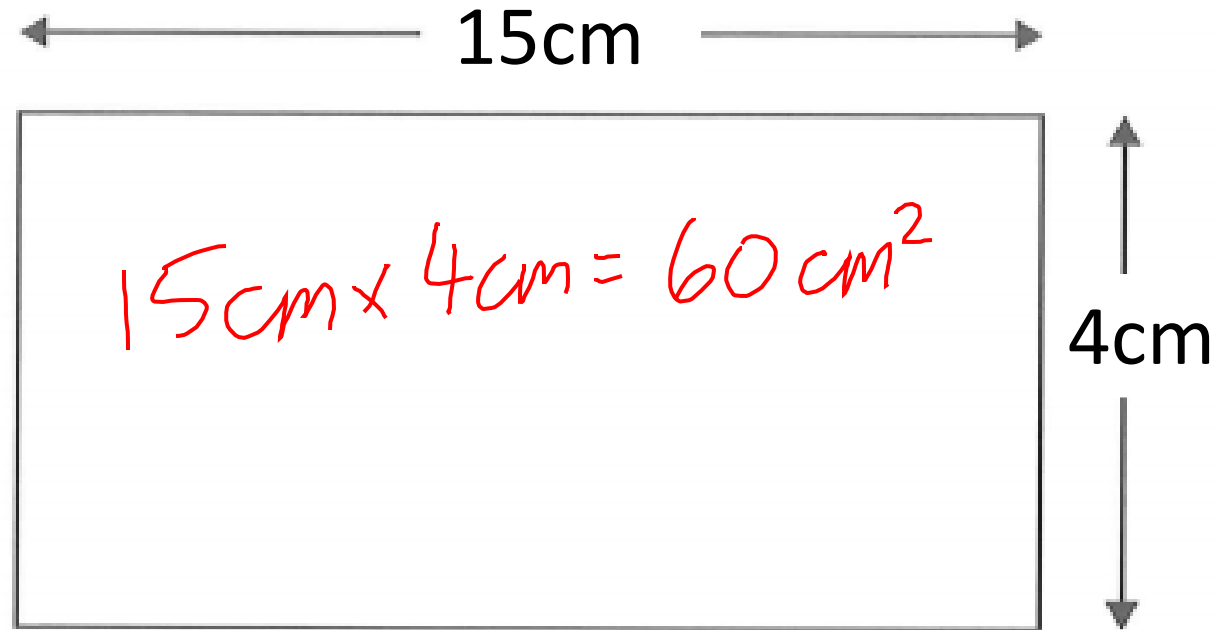
She pays with a £5 note.

How much change should she get?

$$£5 - £3.83 = \underline{\underline{£1.17}}$$

Q13 Area and Volume

Find the area of this rectangle:



Q14 Ratio & Proportion

To make Bara Brith for 8 people you need

350 grams of dried fruit.

Adult * 2.5 = 8 Children
 ↘ ↗

x 2½ = 20 people.

How many kilograms of dried fruit do you need for 20 people?

$$\begin{array}{r}
 350 \\
 350 \\
 + 175 \\
 \hline
 875
 \end{array}$$

$$\begin{array}{r}
 720 \\
 - 60 \\
 \hline
 0.875 \text{ kg}
 \end{array}$$



12 adults

Q15 Ratio & Proportion

In a nursery school, the ratio of adults to children is 1:6.

There are 72 children.

How many adults are there?

Q16 Averages

Time	7am	11am	3pm	7pm	11pm
Temperature (°C)	8	10	10	2	-5

What is the range of the temperatures?
 4 2 3 5 7
 Highest - lowest

$$10 - (-5)$$

$15 \text{ } ^\circ\text{C}$

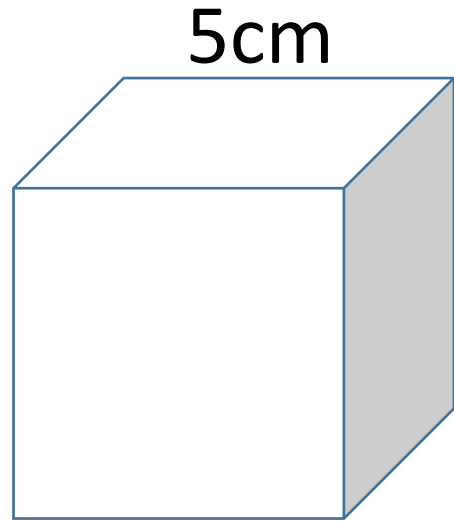
Rules for signs
 $-- = +$

Work out the mean of the temperatures.
 $8 + 10 + 10 + 2 - 5 = 25$
 $25 \div 5$

$5 \text{ } ^\circ\text{C}$

Q17 Area & Volume

Find the volume of this cube:

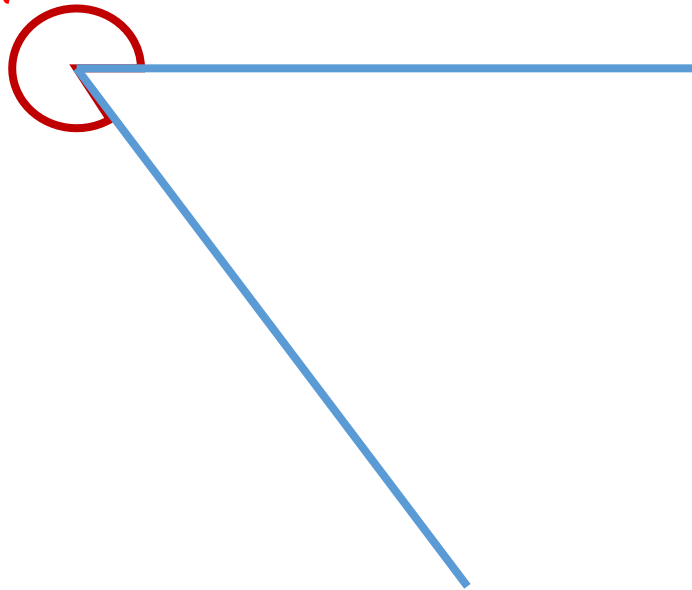


$$V = l \times w \times h$$
$$5\text{cm} \times 5\text{cm} \times 5\text{cm} = 125\text{cm}^3$$

Q18 Angle & Position

What type of angle is this?

Reflex



Q19 Present & Analyse Data

Complete the frequency table for the list of prices.

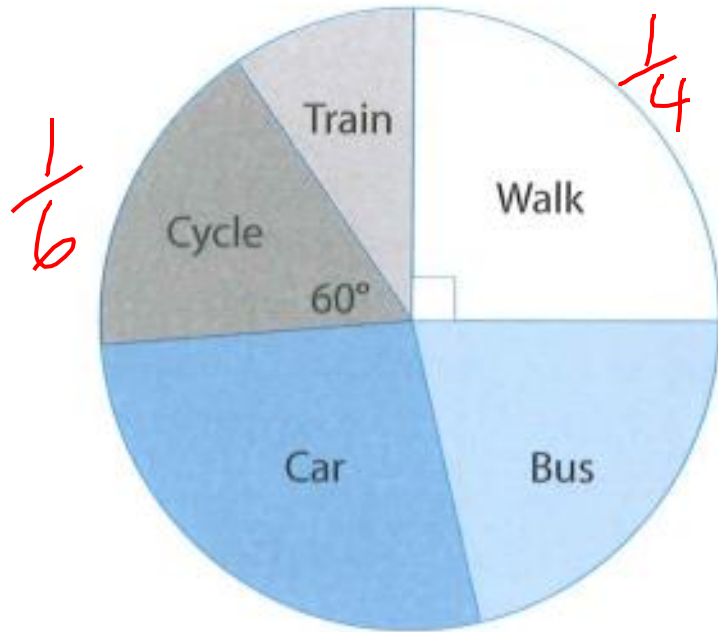
99p	£3.72
£12.45	£4.98
£11.01	£18.50
£9.99	£6.40
£15.55	£19.00

Frequency table

Price (£)	Frequency
0–4.99	2
5–9.99	3
10–19.99	 5

Q20 Present & Analyse Data

How pupils in Year 7 travel to school



There are 240 pupils altogether.

How many of them **walk** to school?

$$240 \div 4$$

60 pupils

How many of them **cycle**?

$$240 \div 6$$

40 pupils