

Wednesday 3rd June - rapid reasoning

Q1

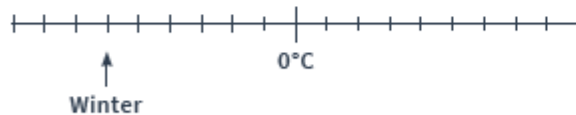
Match the decimal fractions to their fraction equivalents.

$\frac{1}{5}$	0.3
$\frac{30}{100}$	0.2
$\frac{1}{4}$	0.6
$\frac{6}{10}$	0.72
$\frac{72}{100}$	0.25

2 marks

Q2

This temperature scale shows the average temperature in a city.



a

Look at the arrow. What is the average temperature in winter?

 °C

The average temperature in summer is 23°C higher than winter.

b

What is the average temperature in summer?

 °C

1 mark

Q3

Place these lengths in order, starting with the longest.

3.5m	310,000cm	340cm
320mm	30,000mm	3km

Longest

1 mark

Q1

At the start of May, there were 3,043 cans of fizzy orange in the shop. During May,

- 11,392 more cans of fizzy orange were delivered
- 13,832 cans of fizzy orange were sold.

How many cans of fizzy orange were left in the shop at the end of June?



cans

1 mark

Q2

Evie eats $\frac{3}{4}$ of a 120g chocolate bar.

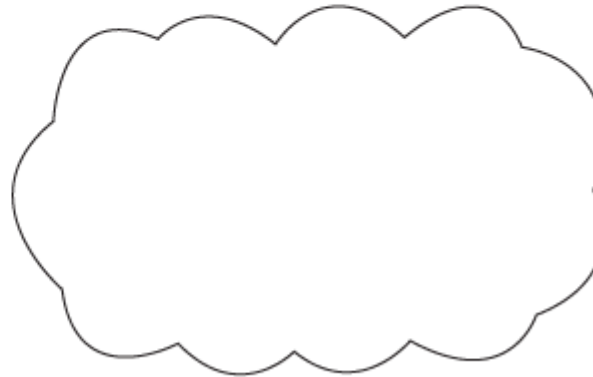
Josh eats 70% of a 120g chocolate bar.

Circle the name of the person that eats the most chocolate.

Evie

Josh

Explain how you know.

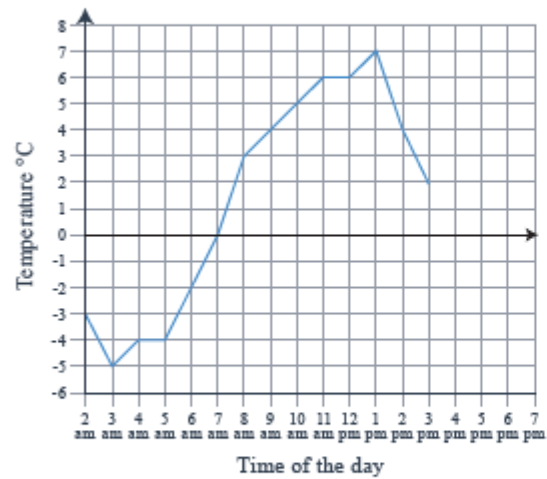


1 mark

Q3

Tallulah records the temperature outside on a cold Saturday in Norwich.

She plots her readings on a line graph.



a

What is the difference between the highest and lowest temperature?

°C

1 mark

b

At what times was it 4°C?

1 mark

c

The temperature decreases by 4°C from 3pm to 6pm.

At what time(s) was it 4°C?

°C

1 mark

Q1

Match the decimal fractions to their fraction equivalents.

$$\frac{35}{100}$$

0.6

$$\frac{22}{100}$$

0.35

$$\frac{3}{4}$$

0.75

$$\frac{3}{5}$$

0.8

$$\frac{80}{100}$$

0.22

2 marks

Q2

Tallulah is thinking of a number.

She doubles it.

She adds 12.

She divides her answer by 4 and subtracts 3.

Her answer is 18.

What was the number that Tallulah started with?

2 marks

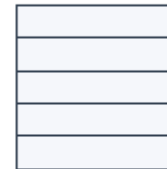
Q3

The area of this square is 100cm^2 .



Not to scale

The square is split into five identical rectangles.



Not to scale

What is the perimeter of one of the rectangles? Don't forget your units.



2 marks

Q1

Josh posts four large letters.

The postage costs the same for each letter.

He pays with a £20 note.

His change is £14.28.

What is the cost of posting one letter?

Don't forget to add units.

2 marks

Q2

Here are some digit cards.

4

5

8

6

Write all four digit numbers above 6,500
that can be made using these digit cards.

2 marks

