We do!

Q1.

Theo earns £20 one weekend.
He gives £4 to his brother.

Express £4 as a fraction of £20.
Give your answer in its simplest form.

$$\frac{4}{20} = \frac{1}{5}$$

(÷4 applied to numerator and denominator)

(2 marks)

Q2.

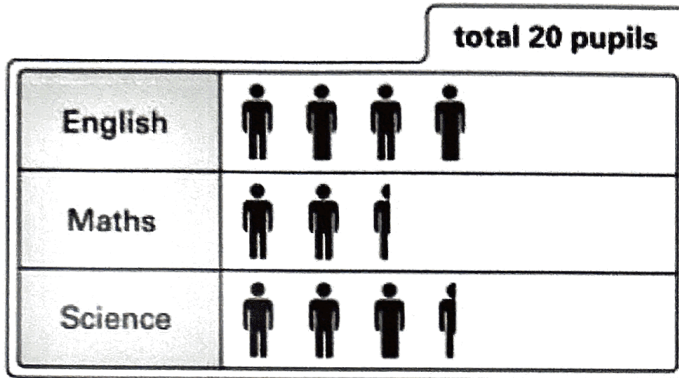Jane takes a test out of 30 marks.
She achieves 18 marks on the test.

Express 18 as a fraction of 30 marks.
Give your answer in its simplest form.

(2 marks)

Sue asked 20 pupils which subject they like best.
She drew this pictogram but forgot to write the key.

	total 20 pupils
English	🧍 🧍 🧍 🧍
Maths	🧍 🧍 🧍
Science	🧍 🧍 🧍 🧍

$4 \times 2 = 8$

$2\frac{1}{2} \times 2 = 5$

$3\frac{1}{2} \times 2 = 7$

How many pupils does 🧍 represent?

There are 9 whole & 2 half pictures which
is 10 in total.   **(2 marks)**

$$20 \div 10 = \underline{\underline{2}}$$

How many more students' preferred science to maths?
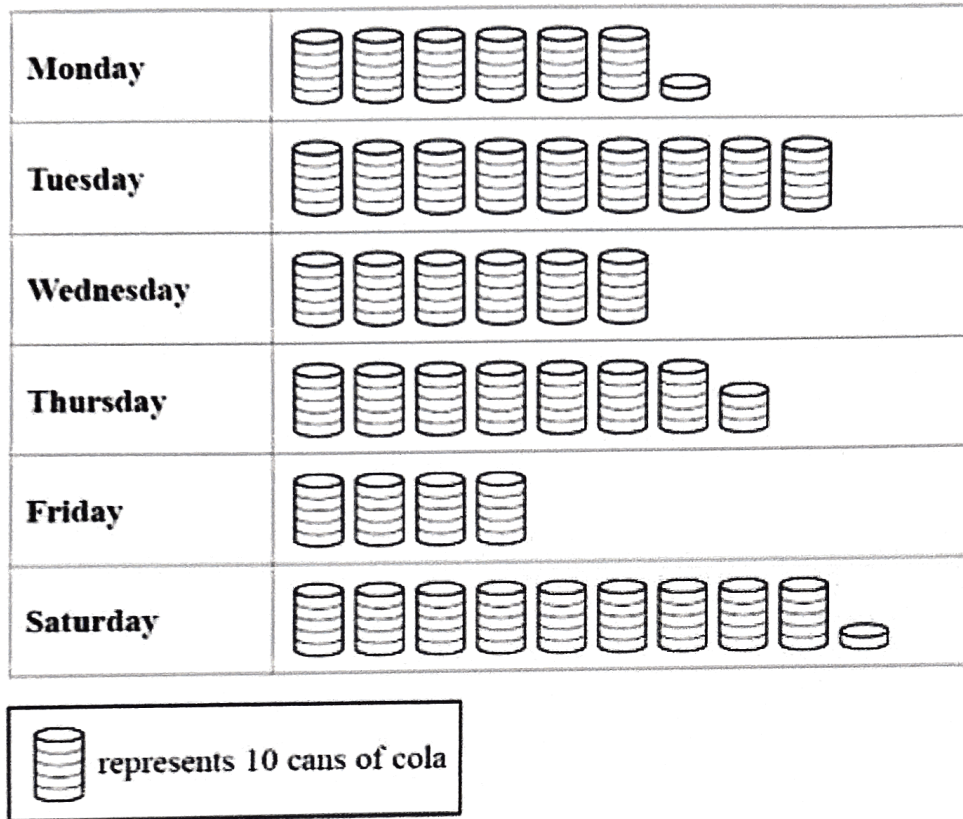
Science $= 7$ **(2 marks)**

Maths $= 5$

$$7 - 5 = \underline{\underline{2}}$$

Q4.

The pictogram shows information about the number of cans of cola sold in a shop on each of six days.

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	

☐ represents 10 cans of cola

On which day was the greatest number of cans of cola sold?

(1 mark)

How many cans of cola were sold on Friday?

(1 mark)

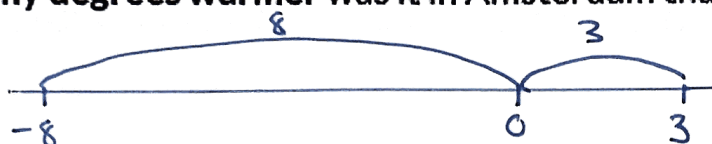On which day were 62 cans of cola sold?

(1 mark)

Q5.

a) In Amsterdam the temperature was $3\,°C$
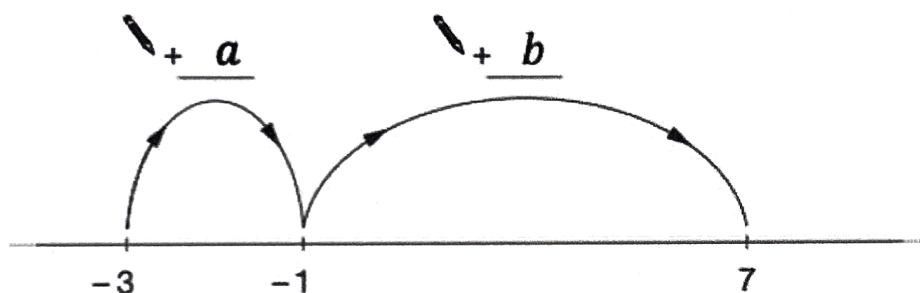In Helsinki the temperature was $-8\,°C$

How many degrees warmer was it in Amsterdam than in Helsinki?

$8+3 = 11$

(1 mark)

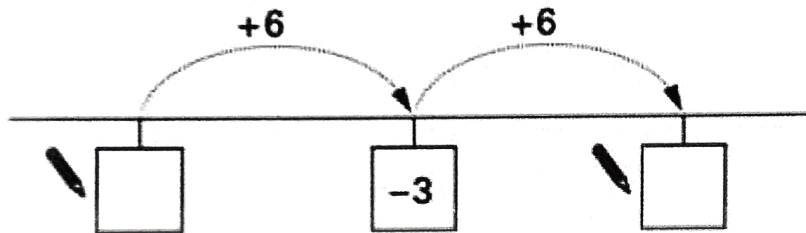b) Write in the missing numbers.

$a = 2$, $b = 8$

(2 marks)

Q6.

In New York the temperature was $-2\,°C$
In Atlanta the temperature was $7\,°C$ **warmer.**

What was the temperature in Atlanta?

(1 mark)

Write the missing numbers on the number line.

(2 marks)

Q7.

The diagram shows a cuboid.

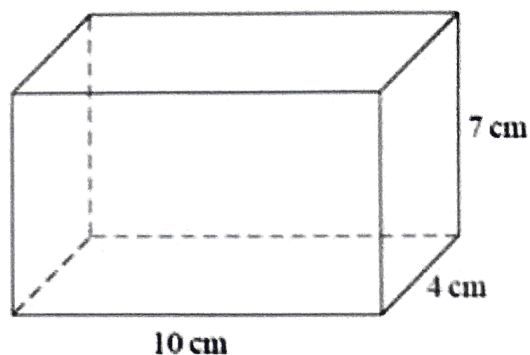Diagram NOT
accurately drawn

7 cm

4 cm

10 cm

The cuboid has length 10 cm, width 4 cm and height 7 cm.
Work out the volume of the cuboid.

(2 marks)

$$V = L \times w \times h$$
$$= 10 \times 4 \times 7$$
$$= 280 \; cm^3$$

The diagram shows a cuboid.

7 cm

Diagram **NOT**
accurately drawn

5 cm

20 cm
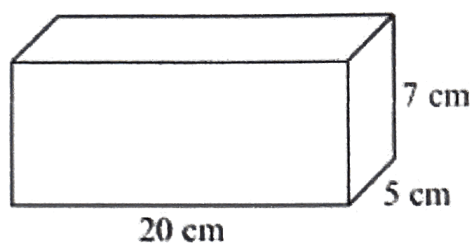
Work out the volume of the cuboid.

(3 marks)

Q9.

Work out $9 + (12 \div 3)$

Use : B

D M
A S

(1 mark)

$9 + 4 = 13$

Where would we put brackets in this calculation to make it correct?

$(7 - 2) \times (5 + 7) = 60$

$5 \times 12 = 60$

(1 mark)

Q10.

Work out

$$2 + 7 \times 2$$

(1 mark)

Which of the following calculations gives the largest answer?

- $1 - 2 + 3 + 4$
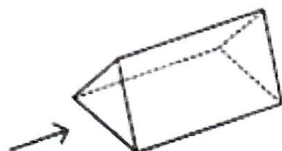- $1 + 2 - 3 + 4$
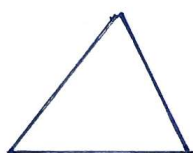- $1 + 2 + 3 - 4$
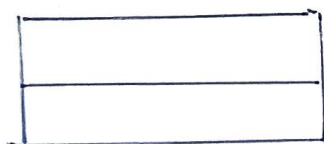- $1 + 2 - 3 - 4$
- $1 - 2 - 3 + 4$

(2 marks)

Q11.

If you looked in the direction of the arrow, what would you see?

A triangle (1 mark)

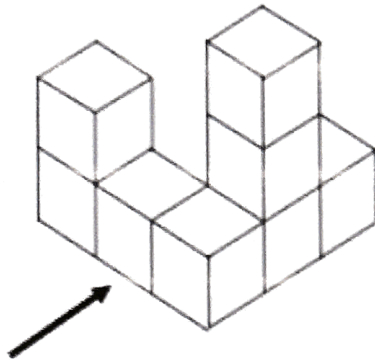If you looked from the plan view, what would you see?
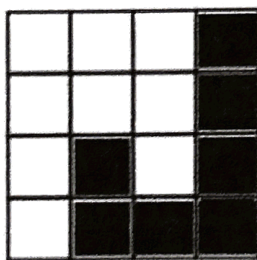
(1 mark)

Q12.

The arrow indicates the front of the 3D shape.
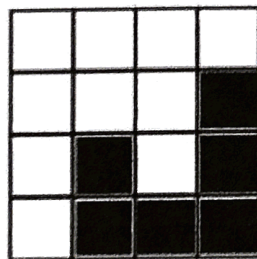
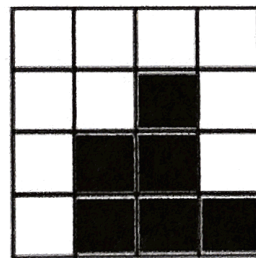Draw what you would see from the front.
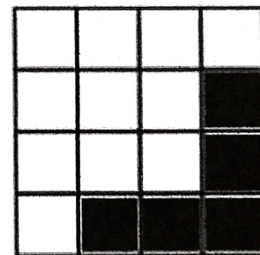
(1 mark)

Identify the correct plan view of this 3D shape

1   2   3   4

(1 mark)