

Mean & Negative Numbers Year Six 3.2.21

1.

Last year, Jacob went to four concerts.

Three of his tickets cost £5 each.



The other ticket cost £7



What was the **mean** cost of the tickets?

Show
your
method

£

2 marks

2.

Seven children measured their heights.

Children	Height (cm)
Stefan	144
Lara	136
Olivia	142
Chen	143
Maria	152
Dev	148
Sarah	150

What is the mean height of the children?

Show
your
method

cm

2 marks

3.

Three apples have a **mean** (average) mass of 100 grams.

The largest apple is removed.

The **mean** mass of the remaining two apples is 70 grams.



What is the mass of the largest apple?

Show your method

g

2 marks

- The **10 books** take up **28 centimetres**.



2 marks

Estimate how many books she can get on the **120 cm shelf**.

2 marks

5.

Here are the temperatures in four cities at midnight and at midday.

	Temperature	
City	At midnight	At midday
Paris	-4°C	-2°C
Oslo	-13°C	-7°C
Rome	3°C	10°C
Warsaw	-6°C	2°C

At **midnight**, how many degrees colder was Paris than Rome?

degrees

1 mark

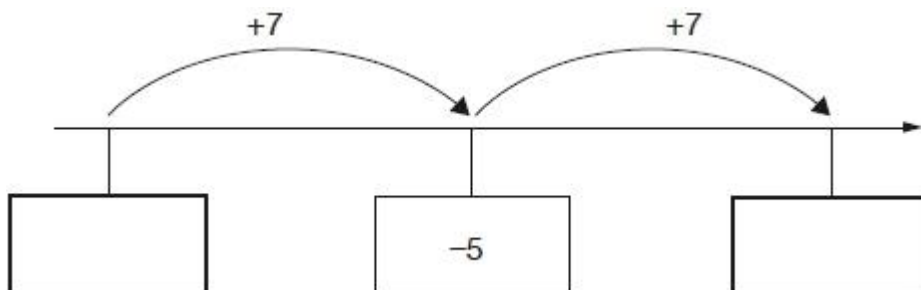
Which city was 6 degrees colder at midnight than at midday?

1 mark

6.

Here is part of a number line.

Write the missing numbers in the boxes.



2 marks

7.

This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C	
	highest	lowest
Monday	+7	0
Tuesday	+7	−2
Wednesday	+8	−2
Thursday	+9	+1
Friday	+4	−5

Which day has the greatest difference between the highest and the lowest temperatures?

_____ 1 mark

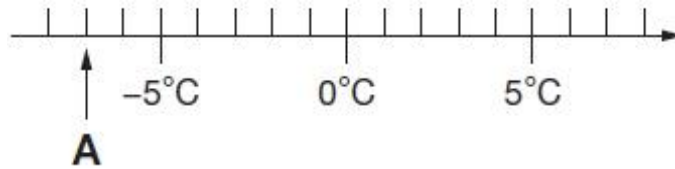
What is the difference between the lowest temperatures on Thursday and Friday?

degrees

1 mark

8.

Here is part of a temperature scale.



What is the temperature shown at **A**?

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

1 mark

What temperature is 20 degrees **higher** than **A**

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

1 mark