

Negatives: Real Life Applications

Video 209 on www.corbettmaths.com

Examples



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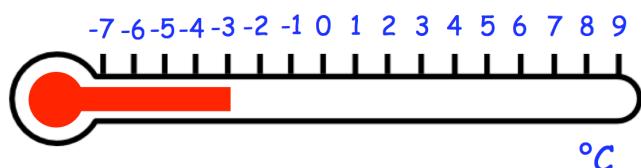
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Question 1: The thermometer below shows the temperature at 6am in a town.

- (a) What temperature is shown?

The temperature increases by 5°C by 10am.

- (b) What is the temperature at 10am?



Question 2: The map shows the temperatures in six cities.

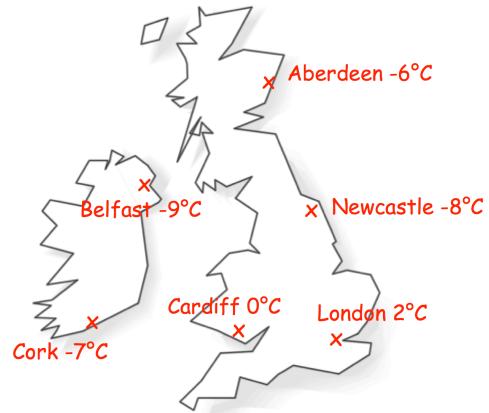
- (a) Which city is the warmest?

- (b) Which city is the coldest?

- (c) What is the difference in temperature between London and Cork?

The temperature in Berlin is 4°C colder than Belfast

- (d) What is the temperature in Berlin?



Question 3: Shown is a list of locations and their elevations

- (a) List the locations that are below sea level, 0 metres.

- (b) Which location has the lowest elevation?

- (c) Which location has the highest elevation?

- (d) Work out the difference in Baku's and Tokyo's elevations

Location	Elevation
Coachella	-22 metres
Bern	542 metres
Jericho	-258 metres
Baku	-28 metres
Lake Eyre	-16 metres
Tokyo	17 metres

Question 4: At 3am the temperature is -8°C .

By 1pm the temperature went up by 13°C .

From 1pm to 10pm the temperature went down by 6°C

Work out the temperature at 10pm.

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Question 5: The table below shows some information about the minimum and maximum temperature for a day in January.

The minimum temperature in Lisburn is 1°C colder than its maximum temperature.

- (a) What was Lisburn's minimum temperature?
- (b) Which city had the lowest minimum temperature?
- (c) Which city had the greatest maximum temperature?
- (d) Which city had the greatest difference between their minimum and maximum temperatures?

City	Minimum $^{\circ}\text{C}$	Maximum $^{\circ}\text{C}$
Glasgow	-6	9
Bristol	4	14
Norwich	-7	7
Hull	-1	10
Derby	5	11
Lisburn		-2

Question 6: Dominic's bank account balance is £23.
He withdraws £50 from his bank account.
What is his new bank account balance?



Question 7: Daisy's bank account balance is -£100.
Daisy deposits £35 into the bank account.
What is her new bank account balance?

Question 8: The table shows the melting points of some elements

- (a) Which element has the lowest melting point?
- (b) Work out the difference in melting points of bromine and mercury
- (c) Work out the difference in melting points of nitrogen and silicon

The temperature is -10°C

- (d) Which of the elements are solid?

Element	Melting Point
Bromine	-7
Caesium	29
Mercury	-39
Nitrogen	-210
Phosphorus	44
Silicon	1414

Question 9: Ballymena Rovers started a football season on -14 points
Each win is worth 3 points.
Each draw is worth 1 point
Each loss is worth 0 points.
Over the season, Ballymena Rovers won 15 matches, drew 3 matches and lost 2.

How many points did they finish with at the end of the season?

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Question 10: Tristan is taking part in a maths competition.

Each correct answer is worth 5 points and each incorrect answer is worth -3

If Tristan chooses not to answer a question, it is worth 0 points.

There are 10 questions in total.

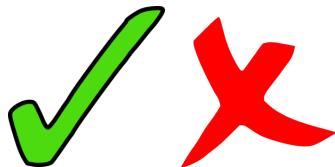
- (a) What would Tristan's final score be if he answered 5 correctly, 4 incorrectly and left 1 blank?
- (b) Can Tristan finish with -10 points? Explain your answer.

Question 11: The temperature, in $^{\circ}\text{C}$, at midnight at a weather station on 5 days was recorded.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Temperature	-6	3	-4	1	-4

- (a) What percentage of the days had temperatures below 0°C ?
- (b) What is the range of the temperatures?
- (c) What is the median of the temperatures?
- (d) What is the mean of the temperatures recorded?

Answers



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