

Examples

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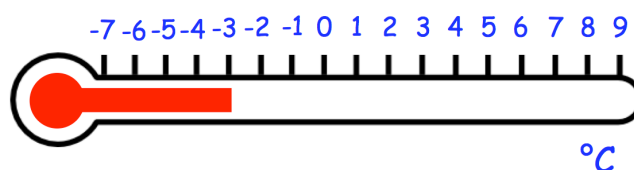
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Question 1: The thermometer below shows the temperature at 6am in a town.

(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.

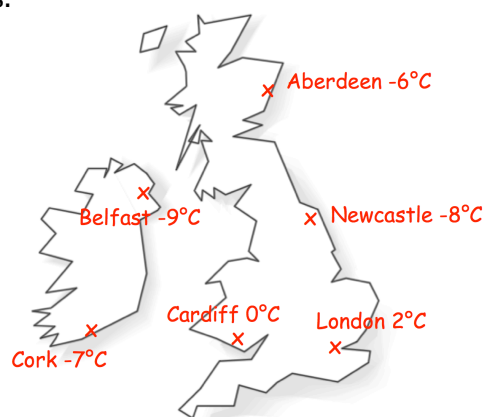
(a) Which city is the warmest?

(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.

Negatives: Real Life Applications

Video 209 on www.corbettmaths.com

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.

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

- What was Lisburn's minimum temperature?
- Which city had the lowest minimum temperature?
- Which city had the greatest maximum temperature?
- Which city had the greatest difference between their minimum and maximum temperatures?

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



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

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

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

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

The temperature is -10°C

- Which of the elements are solid?

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?

Negatives: Real Life Applications

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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.

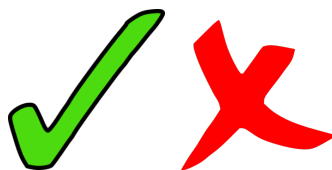
- (a) What would Tristan's final score be if he answered 5 correctly, 4 incorrectly and left 1 blank?
- (b) Can Tristan finish with -10 points? Explain your answer.

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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