

Negative Numbers

Extreme



A company has plans to construct a building with floors above and below ground.



If we build from floor -10 to floor 10, we will have 20 floors in total.

Do you agree? Explain your answer.

Find different ways of completing the calculation.

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = -2$$

Is each statement always true, sometimes true or never true?

When you count forwards in tens from a positive 1-digit number, the final digits of all the numbers are the same.

When you count backwards in tens from a positive 1-digit number, the final digits of all the numbers are the same.

Give examples to support your answers.



Example

In the same town, the temperature during a winter week changed dramatically, but this time the temperature fluctuated even more. The temperature on Monday morning was 2°C . Each day, the temperature changed as follows:

- On Tuesday, the temperature doubled, then dropped by 8°C .
- On Wednesday, it increased by 3°C , then was halved.
- On Thursday, it dropped by 12°C and then increased by 6°C .
- On Friday, the temperature was multiplied by -2 .



- What was the temperature on each day of the week from Monday to Friday?

Monday	$^{\circ}\text{C}$
Tuesday	$^{\circ}\text{C}$
Wednesday	$^{\circ}\text{C}$
Thursday	$^{\circ}\text{C}$
Friday	$^{\circ}\text{C}$

- Which day had the lowest temperature?
- If the temperature on Saturday increases by 10°C , will it be above or below freezing (0°C)?
- On which days of the week was the temperature negative?

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	