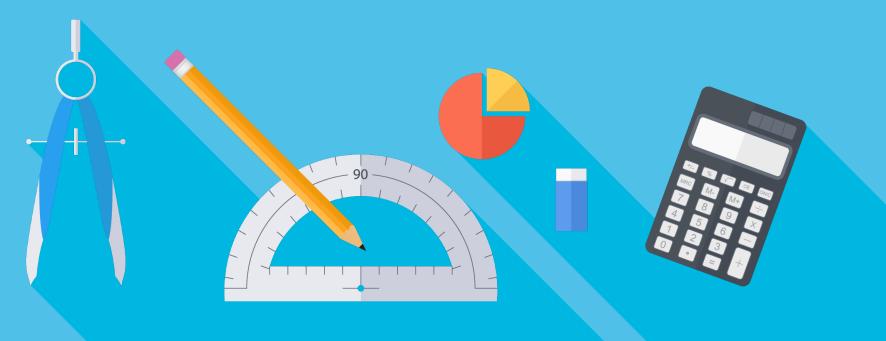
Thursday Week 2 Maths Task

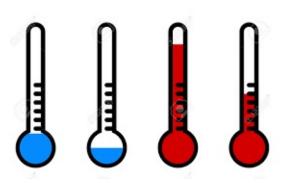


Integers

WALT:

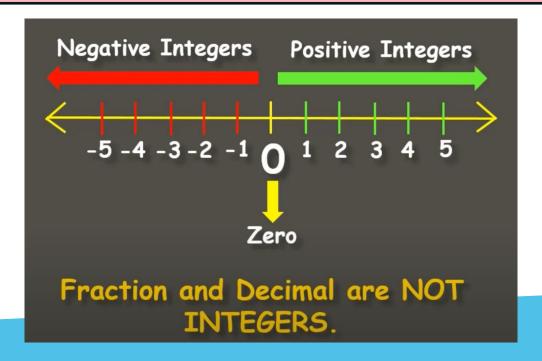
- ❖ Investigate everyday situations that use integers; locate and represent these numbers on a number line.
- Interpret integers in everyday contexts, e.g., temperature





Let's revise! What are Integers?

Integers are a set of counting numbers (positive and negative), along with zero, that are written without a fractional component.



Let's revise! Negative numbers

Negative numbers are used to describe things that are below zero, this could be:

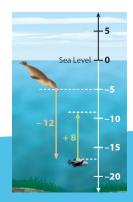
Temperature



Finance and banking



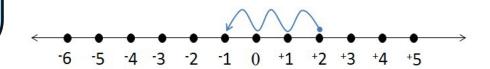
Underwater depth (below sea level)



Let's revise! Adding and Subtracting Integers

When we move to the **right** of the number line numbers get **larger** and when we move to the **left** of the number line the numbers get **smaller**.

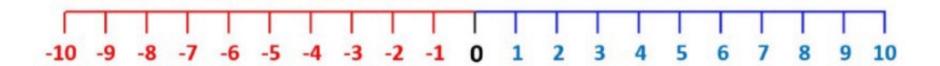
Find the Sum: 6+3=9 0 1 2 3 4 5 6 7 8 9 10 -6+3=-3 -6+3=-3



$$2 - 3 = -1$$

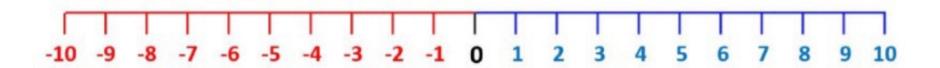
Your turn!

Use the number line to complete these questions.



Answers

Use the number line to complete these questions.



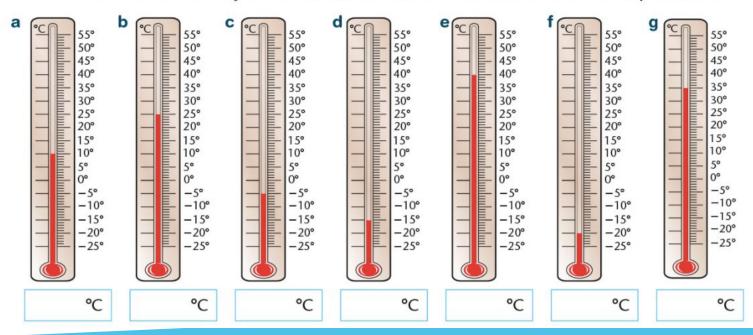
$$3 + 4 = 7$$

$$-10 + 11 = 1$$

$$4 - 8 = -4$$

Let's revise! Temperature

B There are many places around the world and in Australia where temperatures below zero exist. Look carefully at the thermometers below and record the temperatures.



Your turn! Integers in temperature

Put these temperatures in order, the coldest first.

Answers Integers in temperature

Put these temperatures in order, the coldest first.

Integers Climates around the World

Look at the temperatures for these cities. Write the name of the warmest place in the box.

New York	Moscow	Warmest
-3°C	-1°C	Moscow

Minsk	St. Petersburg	Warmest
-15°C	-17°C	Minsk

Your turn! Climates around the World

1. The temperature in England rises by 16 degrees from – 4°C during the day. What is the new temperature?

2. The temperature in New Zealand falls from 11°C to – 2°C at night. How many degrees does the temperature fall?

3. The temperature in Russia was - 5°C. It falls by 6 degrees overnight. What is the temperature now?

Answers Climates around the World

 The temperature in England rises by 16 degrees from – 4°C during the day. What is the new temperature? 12°C

The temperature in New Zealand falls from 11°C to − 2°C at night.
 How many degrees does the temperature fall? 13°C

3. The temperature in Russia was - 5°C. It falls by 6 degrees overnight. What is the temperature now? – 11°C

BLUE	RED	GREEN
 Complete the following questions: a) - 2 + 3 = b) - 5 + 5 = c) - 9 + 4 = d) 4 - 6 = e) - 2 - 8 = 	1. Complete the following questions: a) - 2 + 6 = b) - 8 + 12 = c) - 14 + 17 = d) 4 - 9 = e) - 13 - 7 =	1. Complete the following questions: a) - 13 + 11 = b) - 14 + 18 = c) - 25 + 32 = d) 60 - 117 = e) 9 - 3 - 3 - 3 = f) - 19 - 25 =
2. Find the lowest temperature in each of these questions a) -4°C or 2°C b) -8°C or 8°C c) -5°C or -6°C	2. Find the lowest temperature in each of these questions a) -4°C or -2°C b) -8°C or 8°C c) -16°C or-17°C d) -2°C or -9°C	2. Answer the following questions a) What integer must be added to -53 so that the sum is 28? b) -78 > 23? True or false? c) 16 - (-6) = d) (-20) + 46 = e) Order these integers from smallest to largest 43, -118, 102, -19, 3, - 15
3. Answer the following questions: a) The temperature in Russia at 6pm is 8°C, at 6am the next morning the temperature has dropped to -7°C. By how many degrees has the temperature fallen? b) Mrs Jones buys a pair of skis and pays for them with her debit card. The skis cost \$85 and she had \$50 in her account. What is her new balance?	 3. Answer the following questions: a) The elevator in a skyscraper travels from floor 19 to the underground carpark on level -4. How many floors has it descended? b) The temperature in New York is 4°C when the Christmas lights are switched on. By 9am the next day, the temperature has fallen by 11°C. What is the new temperature? 	 3. Answer the following questions: a) In a quiz, a team scores 2 points for each correct answer and loses 5 points for each wrong answer. From the start of a game, a team gets 4 questions in a row correct, but then gets two questions wrong. How many points do they have? b) Mr Davies overspends during the month of September and goes \$247 overdrawn. How much does he have left after his October wages of \$847 are paid into his account?
4. Choose a holiday destination.	4. Choose a holiday destination.	4. Choose a holiday destination.

Describe the temperature at different times of the

year. Create a graph to show the change in

temperature over time throughout the year.

Describe the temperature at different times of the

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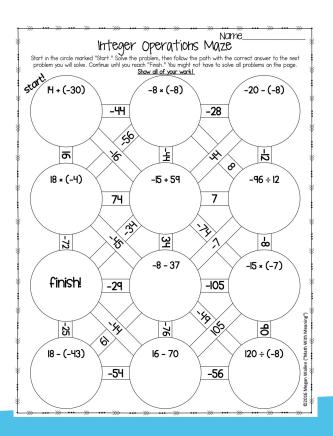
temperature over time throughout the year.

Describe the temperature at different times of the year.

Create a graph to show the change in temperature over

time throughout the year.

Extension Task



Complete the

'Math Extension Task

Integer Operations

Maze'

worksheet from the

School website.

Additional Task

Draw a number line from -10 to 10 and write 3 questions in which you can demonstrate on your number line. See below for an example.