Year 2 Maths

W/c - 06/07/20

Lesson 1: Temperature

Lesson 2: Measuring length in cm

Lesson 3: Sweet investigation

Lesson 1

Key Learning: to read and measure temperature (°c)

Success criteria:

- I can read a thermometer to measure and show temperature in °c
- I can draw the correct temperature on a thermometer
- I can compare temperatures and find the difference

Deepening – interpret data and answer questions

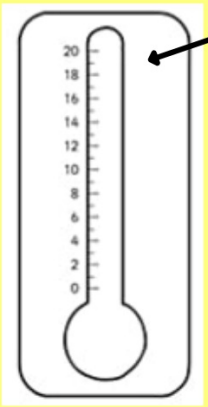
Star words

temperature	degrees	celsius
measure	data	interpret

A thermometer can be used to measure temperature.

Introduce

Their scales can go up in steps of 1, 2, 5 or 10.



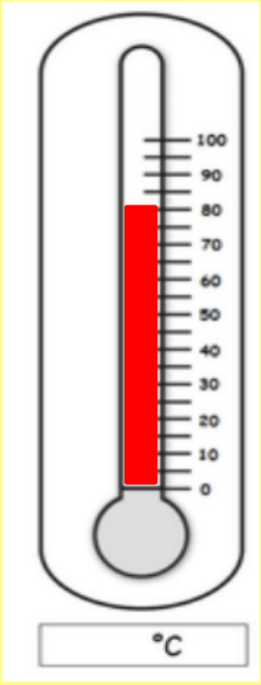
When the temperature is colder than 0 degrees celsius, it goes into negative numbers (-1, -2, -3), which is shown lower than 0 on a thermometer.

What unit of measure do we use when measuring the temperature?

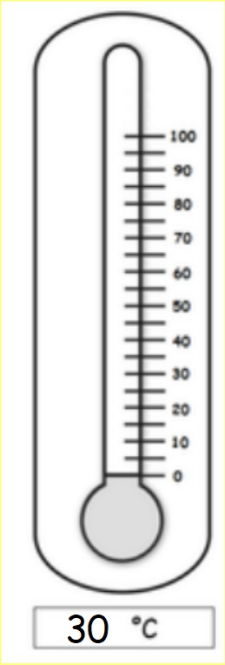
Let's try this together...

Practise

What is the temperature?



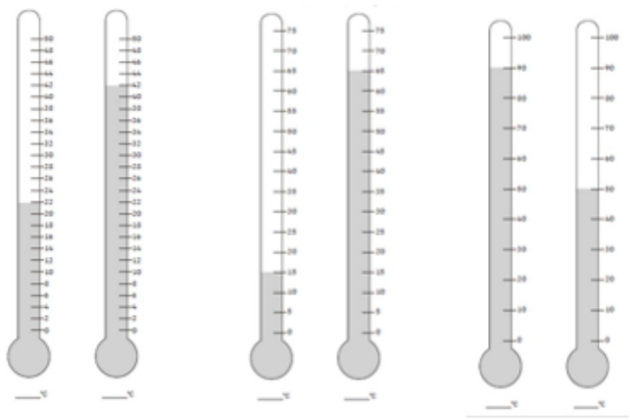
Draw the temperature onto the thermometer.



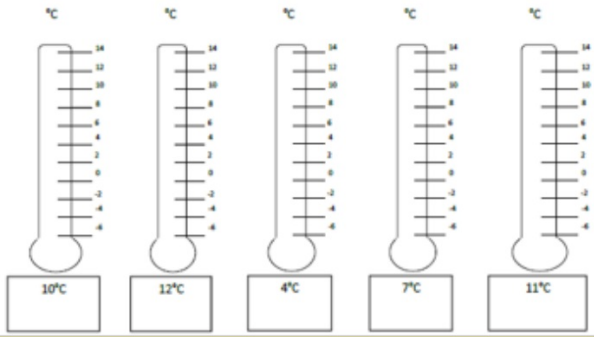
Your turn!

Practise

Task 1 Write the correct temperature underneath each thermometer.
Check what each thermometer's scale is going up in – 2, 5 or 10.



Task 2 Shade the thermometer to show the correct temperature written underneath each thermometer.



How can you find odd numbers when the scale goes up in twos?

Today we are going to be **finding the difference** between the temperature in Sheffield and the temperature in Loompa Land each month.

What does finding the difference mean?

Loopma Land

24 °c

Sheffield

19 °c

It's a subtraction equation!

24 - 19 = 5

The difference is 5 °c.

You are now going to compare the temperatures of Sheffield and Loompa Land.

Independent task

Average temperature for Loompa Land:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp (°C)	31	31	31	30	29	28	28	28	28	29	30	30

Average temperature for Sheffield:

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp (°C)	4	5	7	9	12	16	18	17	15	11	8	5

Month	Loompa Land	Sheffield	Difference
January	31	4	31 - 4 = 27
February			

Difference:
31 - 4 = 27

Look at the data and answer these questions...

Deepening

In which month is the largest difference in temperature?

In which month is Loompa Land the hottest?

Which month has a difference of 10 degrees?

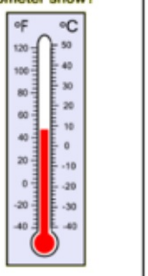
1 What temperature does the thermometer show?

A 6°C

B 8°C

C 10°C

D 12°C



If it was 10 °c warmer, how hot would it be?

On Thursday it was 5 degrees celsius colder. What was the temperature on Thursday?

Lesson 2

Key Learning: measure length in cm

Success Criteria:

- I know when to measure using centimetres
- I can use a ruler to measure in cm
- I can use a ruler to draw in cm

Deepening - solve problems involving length

length centimetres measure ruler

Engage

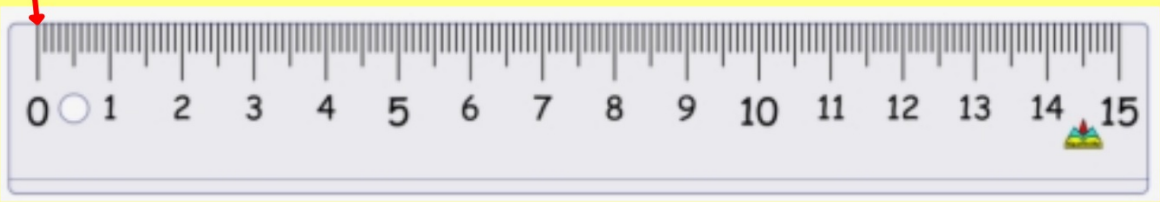
Measure 4 different items in your house or classroom

My notebook is 22 cm.

Introduce

Where is the starting point on a ruler?

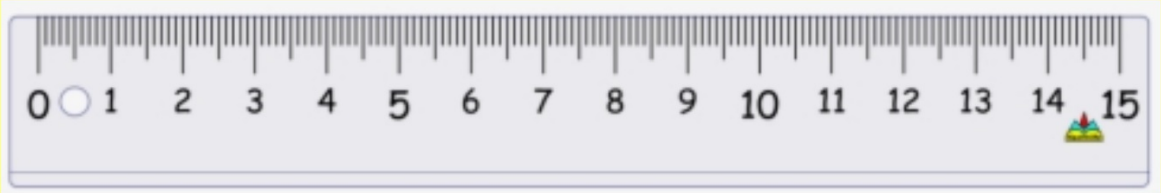
0 cm



Make sure you start at 0cm, not the edge of your ruler!

Introduce

What is the length of the chocolate bar?

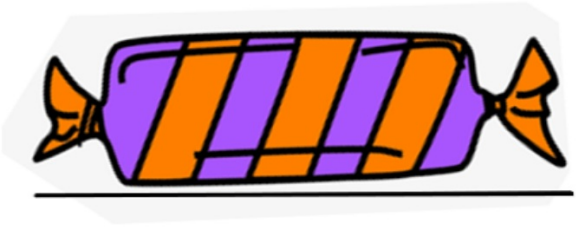


Consider and Practise

Measure the sweets...

Measure the sweets! Place your ruler on the line and write the measurement in the box underneath. **Remember to start at 0cm!**

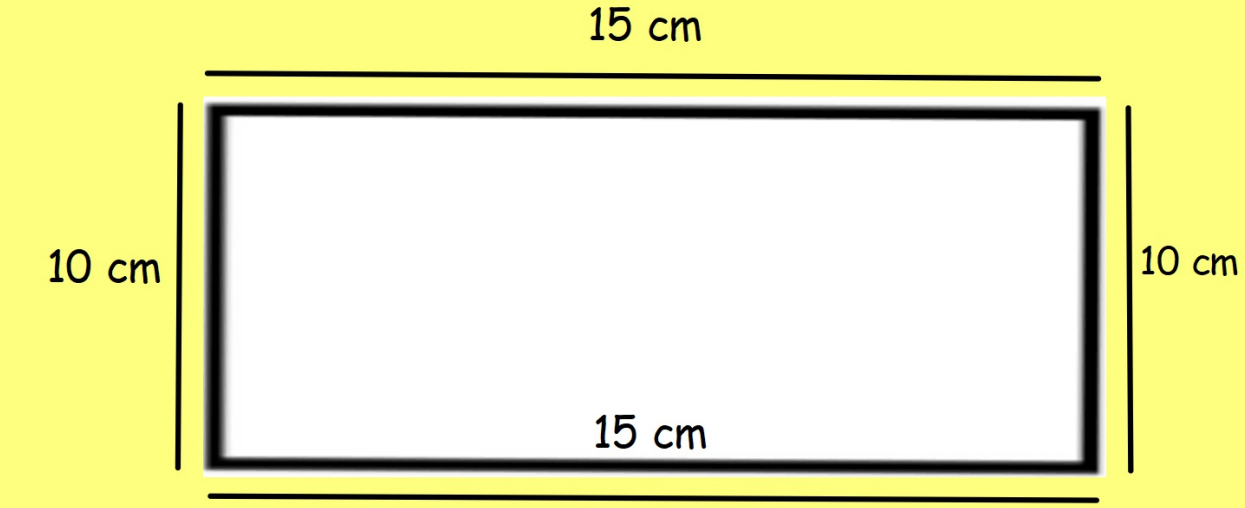
Consider and Practise

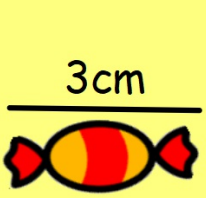


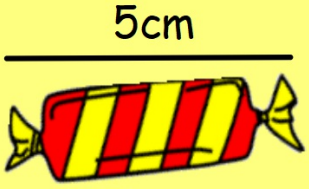
Independent task

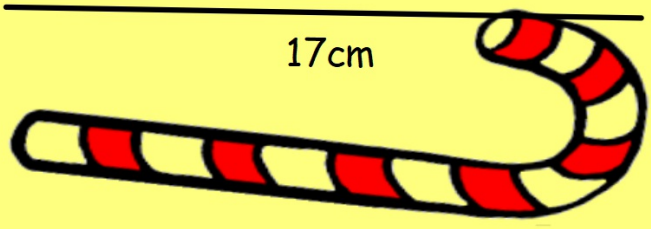
Willy Wonka needs to pack all of the sweets into boxes.

Which sweets would fit inside this box?









Independent task

Create your own sweet boxes and sweets!



1. Draw the outline of your sweet box (rectangle or square) on a piece of A4 paper
2. Write the measurements on the sides of the box
3. Create five sweets of different lengths to fit in your box
4. Write the length of each sweet onto it.

- **The sweets should not overlap.**
- **Write the unit of measure.**

Include sweets that have half cm: 5. 5 cm

Lesson 3

Key Learning: solve Maths investigations

Success criteria:

- I can use multiplication, addition and problem solving skills to complete my independent task.
- I can check my answers carefully.

Deepening - I can use problem solving skills to complete more difficult equations

addition multiplication problem solving

Engage

Today we will be using addition and multiplication skills to investigate how many sweets Augustus buys!

Let's practice our multiplication!

x	2	4	5	10
1	2			
2			10	
3		12		
4	8			
5				50
6				
7		28	35	
8				
9		36		
10				

CHALLENGE

Use your knowledge of the 2x table to help with the 4x table!

Introduce

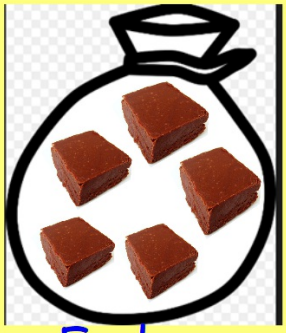
Today is Augustus Gloop's birthday.

He goes to the shop to buy some sweets.

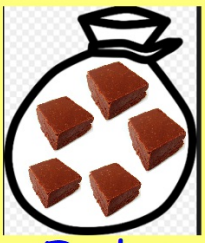
He can choose from:

- Packs of Everlasting Gobstoppers (4 in a pack).

- Packs of Strawberry Flavoured Chocolate-Coated fudge (5 in a pack).



Fudge



Fudge

He buys 3 packets and comes out with 12 sweets. What 3 packets did he buy?

Next time he comes out with 9 sweets, what packets did he buy?

Independent

Can you fill in the table with the number of packets of each sweet that Augustus Gloop buys?

Can you fill in the table with the number of packets of each sweet that Augustus buys?

Packets of Gobstoppers (4 in a pack)	Packets of Fudge (5 in a pack)	Total no of sweets
		4
		5
		8
		9
		10
		12
		14
		15
		20
		20

Use the empty sweet bags and put in cubes to help you.

Challenge

Going Deeper

Using the results you have already got in your table, can you work out which packets Augustus would buy to get:

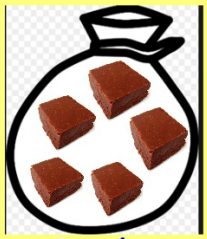
24 sweets

30 sweets

35 sweets

19 sweets

Gobstoppers



Fudge