

Maths Week Scotland

28th September – 4th October 2020

Take part our daily
#STEMGlasgow maths
themed challenges



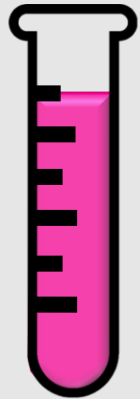
#MathsWeekScot



Help Alex convert the volume of liquid in the containers to the same unit of measurement. Then work out which has the most liquid. Tweet your answer using #STEMGlasgow.



65cl



80ml



0.5L



65ml



0.3L



0.25L



0.7cl



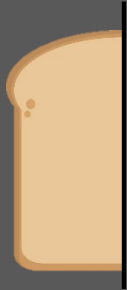
700ml

Container	Volume
Blue	
Pink	
Green	
Grey	
Purple	
Orange	
Red	
Yellow	

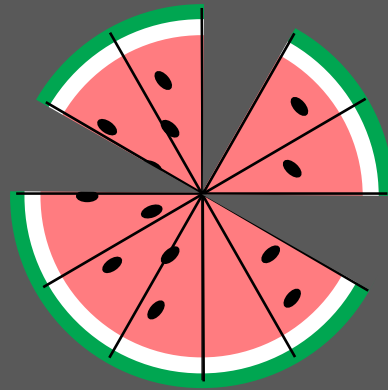
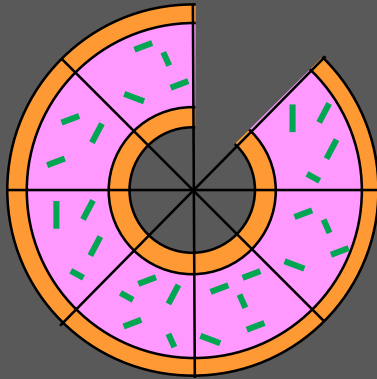
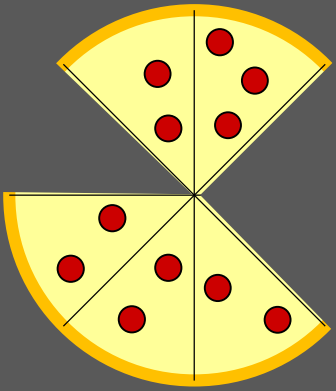
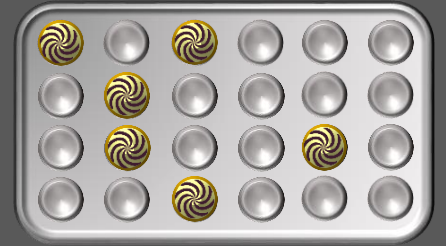
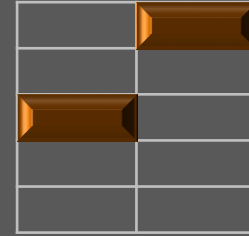
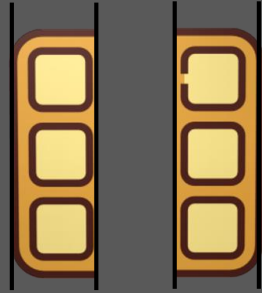
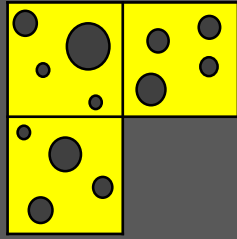
All of the units are different so I'm finding this one a bit tricky.



Claire is looking at fractions for today's challenge. Work out what fraction of each food has been eaten then convert it into a percentage. Tweet your answer using #STEMGlasgow.



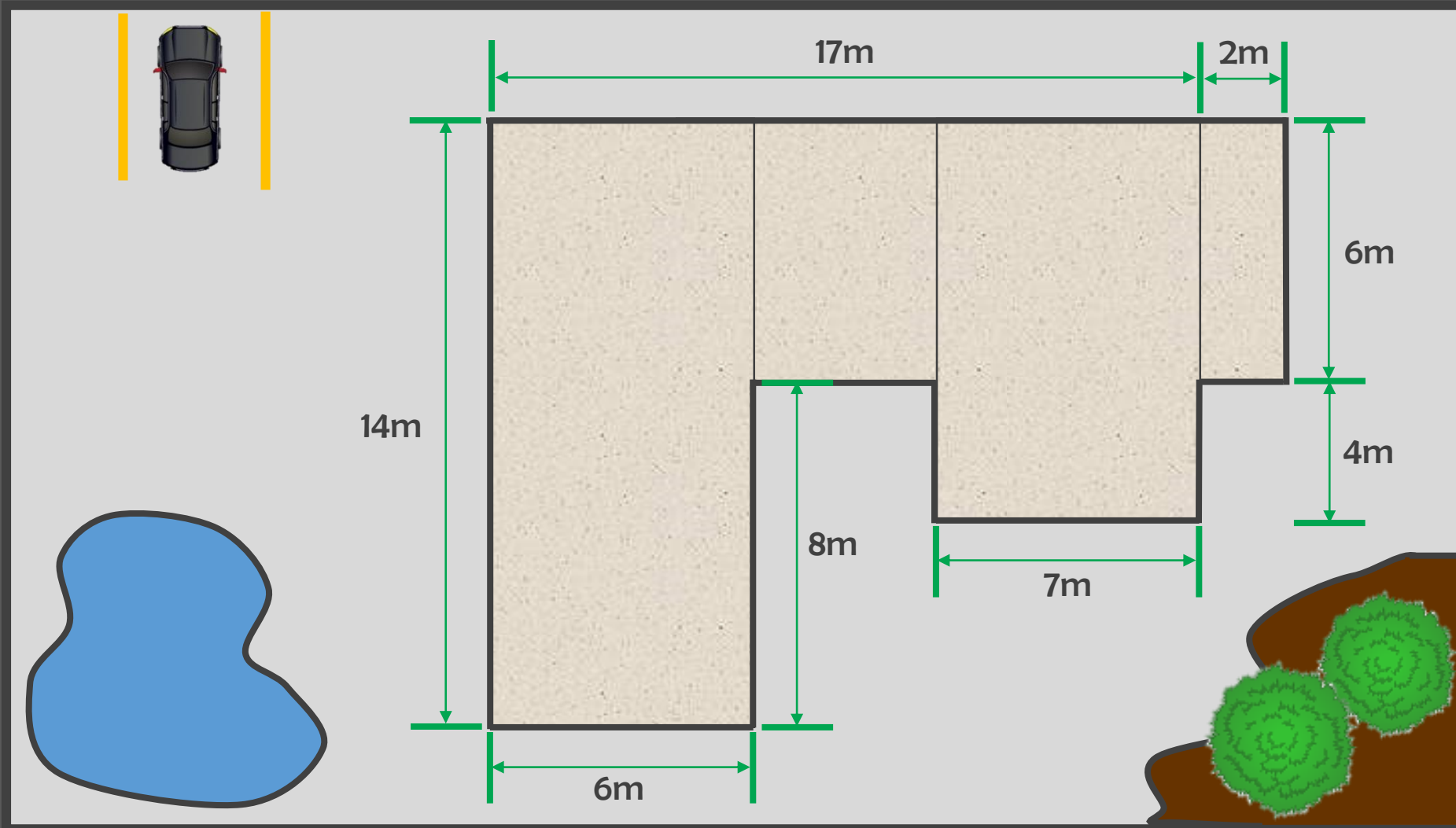
$\frac{1}{2}$ 50%



I've answered one but the rest are up to you.



Can you help Hannah calculate both the perimeter and area of the school that she is visiting today? Tweet your answer using #STEMGlasgow.



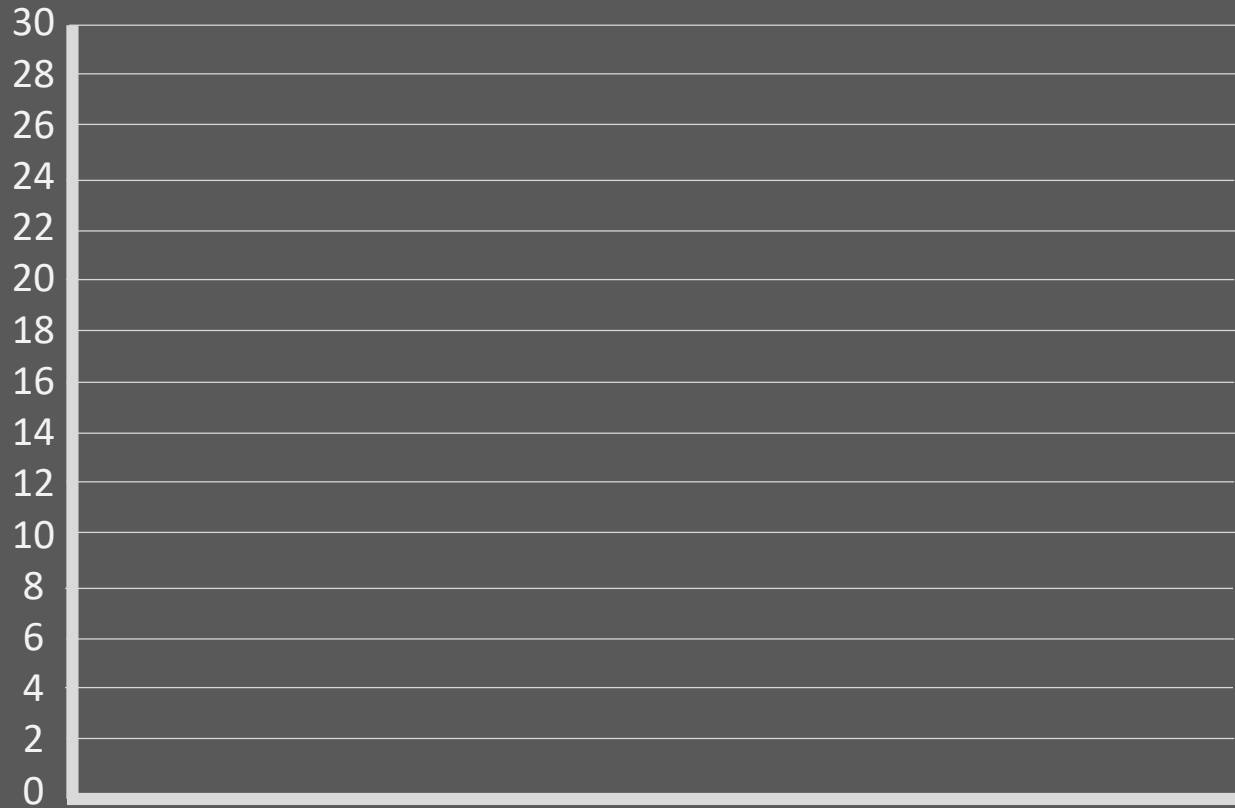
Don't forget to show your working!



#MathsWeekScot



It's been 100 days since the end of last academic year and there has been lots of different types of weather Can you display the weather data below in the bar chart? Tweet your answer using #STEMGlasgow.



Weather	Last 100 Days
Sunny	20
Rain	16
Windy	18
Overcast	26
Lightening	6
Snow	1
Hail	11

Can you think of another graph or chart that could also display this information?

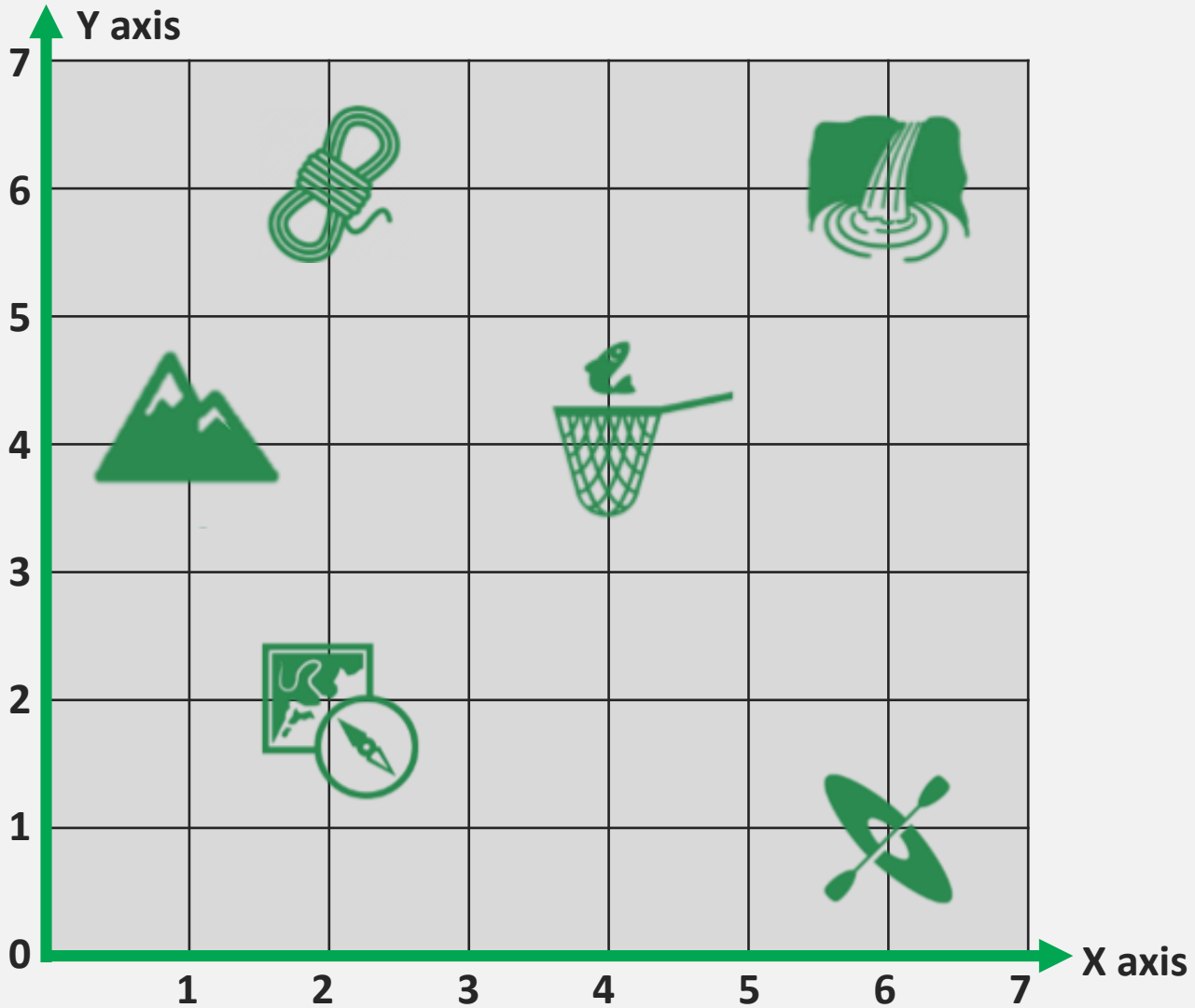


Can you help Alex find the coordinates for each Blairvadach activity? Tweet your answer using #STEMGlasgow.

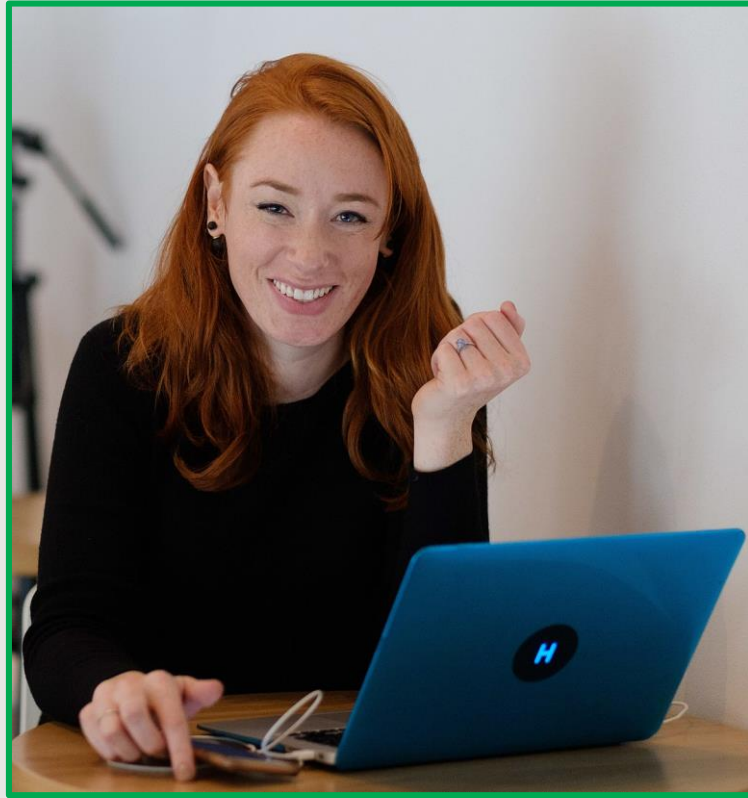
Coordinates	Destination
(4 , 4)	Pond Dip
	Kayaking
	Night Line
	Gorge Walk
	Hill Walking
	Orienteering



I'm going to Blairvadach for some outdoor education activities but need some help finding my way about.



Can you find the answers to the questions below about this famous mathematician? Tweet your answers using #STEMGlasgow



Hannah Fry
Mathematician

1. Where does Hannah work?
2. What does Hannah use maths to help her study?
3. Where was Hannah's first job after completing her PhD?
4. What is Hannah's BBC Radio 4 programme about?
5. What award did Hannah win in 2018 and why?

Time to hit the books!



#MathsWeekScot



Let's get outside for this maths task! Find an assortment of leaves, sticks, stones and plants.
Then create your own criteria to sort and categorise them. Tweet your work using
#STEMGlasgow

I've provided some leaves for you but how are you going to categorise and sort them? I've made a few suggestions but left a some spaces for you to fill in your own ideas.



Categories
Shape
Colour
Size



Challenge 1

A. *Milliliters have been used as the unit. The yellow beaker contains the most liquid.*

Container	Volume
Blue	650ml
Pink	80ml
Green	500ml
Grey	65ml
Purple	300ml
Orange	250ml
Red	70ml
Yellow	700ml

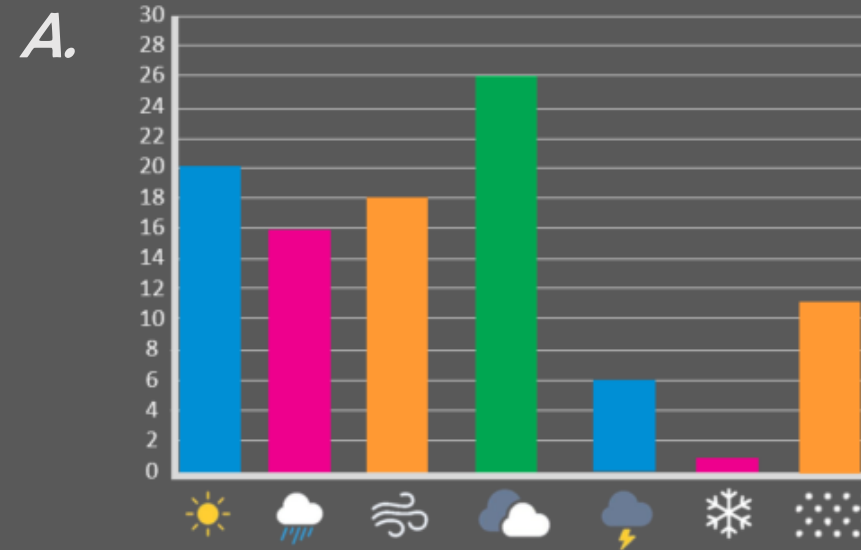
Challenge 3

A. $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{2}{5}$ $\frac{4}{5}$ $\frac{3}{4}$ $\frac{3}{8}$ $\frac{1}{8}$ $\frac{1}{4}$

Challenge 3

A. *80m Perimeter , 228m² Area.*

Challenge 4



Challenge 5

A.

Coordinates	Destination
(4 , 4)	Pond Dip
(6 , 1)	Kayaking
(2 , 6)	Night Line
(6 , 6)	Gorge Walk
(1 , 4)	Hill Walking
(2 , 2)	Orienteering