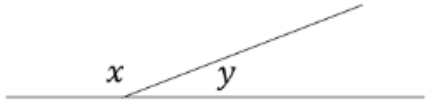
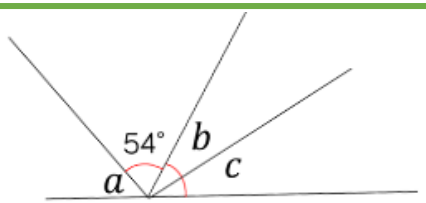
Angles

Here are two angles.





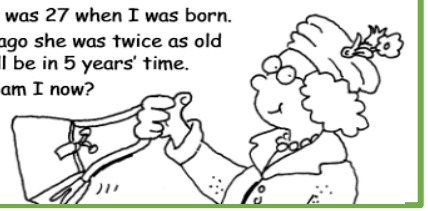
Use the clues to calculate what the missing angles could be worth.

Angle x is larger than 130°
Angle y is a prime number between 40 and 50

- The total of angle b and c are the same as angle a
- Angle a is 9° more than the size of the given angle.
- Angle b is 11° more than angle c

What are the angles worth?

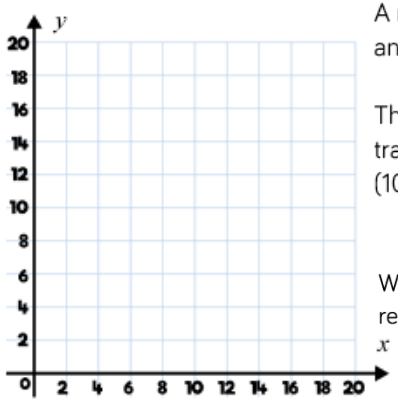
1. My age this year is a multiple of 8.
   Next year it will be a multiple of 7.
   How old am I?
2. Last year my age was a square number.
   Next year it will be a cube number.
   How old am I?
   How long must I wait until my age is both a square number and a cube?
3. My Mum was 27 when I was born.
   8 years ago she was twice as old as I shall be in 5 years' time.
   How old am I now?



Arithmetic Practice

93562 x 4 =
378 ÷ 6 =
£7704.14 + £947.31 =
97483 – 79942 =

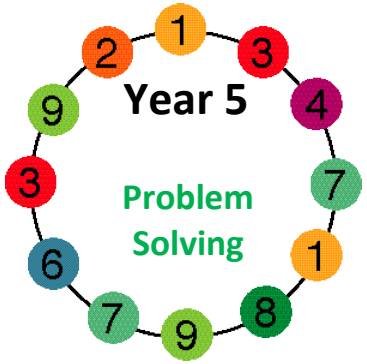
Shape Translation



A rectangle is translated 3 squares up and two squares to the left.

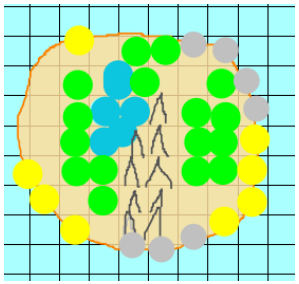
Three of the coordinates of the translated rectangle are: (5, 7) (10, 14) (10, 7).

What are the coordinates of the original rectangle?



Challenge linked to Home Learning Project

Can you design a new island for Australia? Each square represents 4km². The island must include the following features and have the approximate measurements:
Circular island: 180 km²
Oval lake: 18 km²
3 forests – total area: 63 km²
4 beaches – total area: 32 km²
Mountain range: 37 km²
Rocky coastline – total area: 25 km²

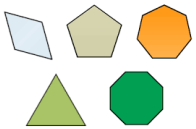


See the resource on the website.

Always, Sometimes, Never

Decide which statements are true, sometimes true or false.

- A regular polygon has equal sides but not equal angles.
- A triangle is a regular polygon.
- A rhombus and square are regular polygons.
- The number of angles is the same as the number of sides in any polygon.



Prove it!

Games & Online Resources

https://nrich.maths.org/10334

https://garyhall.org.uk/maths-objectives/150/solve-number-problems-and-practical-problems-that-involve-all-of-the-above