## Year 2 - Maths ANSWERS

Mental Maths
$3 \times 10=30$
$58-29=29$
$16 \div 4=4$
$18+17=35$
$45+25=70$
$33-28=33$

Year 2 - Additional Activities


Tick the image of the octopus after a quarter turn clockwise.


What could the octopus do to get back to the start?

Half turn


Quarter turn clockwise


Quarter turn anti-clockwise


Three-quarter turn anti-clockwise $\square$

Can you follow the written directions and plot the route Alex moves on the squared paper?
First, she walks straight forward 2 squares.
Next, she does a quarter turn anti-clockwise and walks straight forwards 2 squares.
Then, she does a quarter turn clockwise and walks straight forwards 2 squares.


Could Alex have got there another way?
Here are some possibilities:

1. Quarter turn anti-clockwise and straight forward 2 squares.
Quarter turn clockwise and straight 4 squares.
2. Straight forward 4 spaces.

Quarter turn anti-clockwise and straight forward 2 squares.
3. Straight forwards 1 square.

Quarter turn anti-clockwise and straight 2 squares.
Quarter turn clockwise and straight forwards 3 squares.

Complete the following sentences to describe the movement of these triangles.


The triangle has made a half turn clockwise.


The triangle has made a quarter turn clockwise.

## Is Whitney correct?

A quarter turn clockwise is the same as a threequarter turn anticlockwise.

Whitney is correct.
A quarter turn clockwise is the same as a three-quarter turn anticlockwise.

Your child can show this using objects or cutting up shapes and rotating them on paper to prove it.

## Convince me.

## Challenge: The Tall Tower

You have been imprisoned at the top of the Tall Tower by the Wicked Magician!
You can go down the ladders and through the doorways into an adjoining room, but you cannot go into the same room twice OR climb up the ladders.
The numbers in the rooms show you how many spells there are in each one.


Which way should you go to collect the most spells?
$1,3,4,6,5,7,8,10,9=53$
Which way should you go to collect the fewest spells?
$1,3,5,7,9=25$
Can you find a route that collects exactly 35 spells?
$1,3,4,6,5,7,9=35$

