

Hello parents,

This week the children will learn a variety of maths skills based all around rainbows.

Choose the level of challenge which fits your child . The one chilli challenges are the easiest the three chilli challenges are the hardest.

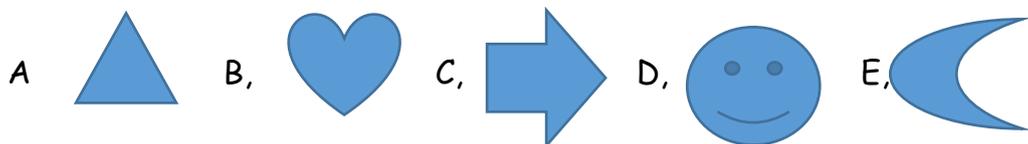
Today we are moving onto position and direction. However, it is important that your child continues to practise their bonds to 10 and 20. If you know there are a few calculations they are still do not know fluently, please continue to practise these.



- half turns.

When an arrow starts like this  and then makes a $\frac{1}{2}$ turn, it will look like this. 

What will each of these items look like when they make a $\frac{1}{2}$ turn?

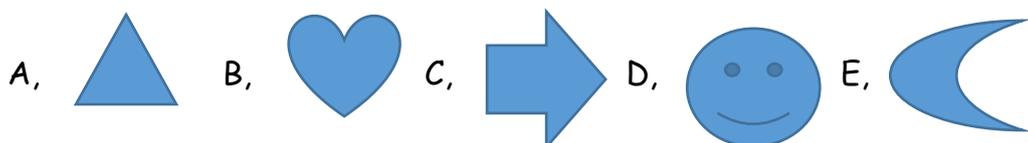


quarter turns

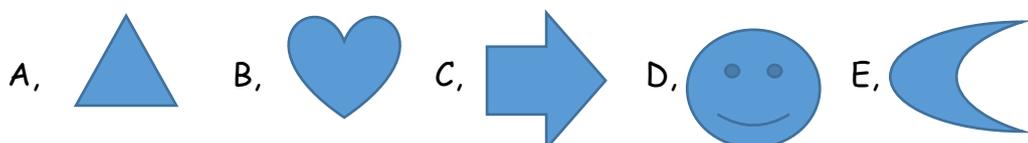
When an arrow starts like this  and then makes a $\frac{1}{4}$ turn clockwise, it will look like this. 

If it makes a $\frac{1}{4}$ turn anti-clockwise, from its original starting position, it would look like this. 

What will each of these items look like when they make a $\frac{1}{4}$ turn **clockwise** ?

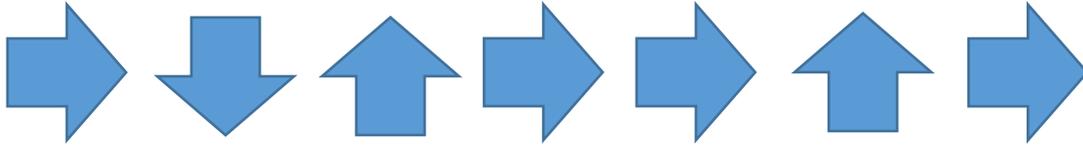


What will each of these items look like when they make a $\frac{1}{4}$ turn **anti-clockwise** ?





combinations of directions



Start

Finish

Can you see how this arrow moved the following turns:

$\frac{1}{4}$ clockwise

$\frac{1}{2}$ clockwise

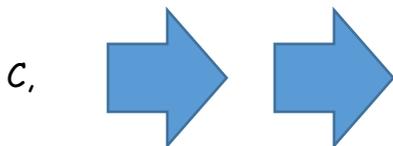
$\frac{3}{4}$ anti-clockwise

1 whole turn anti- clockwise.

$\frac{1}{4}$ anti-clockwise

$\frac{1}{4}$ clockwise.

Can you write an interesting set of instructions to explain how each of the following shapes got into their finishing positions.



D, What do you notice about a shape when it makes a $\frac{1}{4}$ turn clockwise or a $\frac{3}{4}$ turn anti-clockwise?

E, Can you explain why it doesn't matter if you make a $\frac{1}{2}$ turn clockwise or anti- clockwise?