LEARNING

## HELLO!

Today we are going to revise geometry - position and direction

## Arithmetic Warm Up

## Multiplying and dividing by 100 and 1000



## 2. $78.3 \times 100=$

3. $3000 \div 100=\square$
4. $6217 \div 1000=$

# Revision on long and short multiplication and division 



First we are going to revise:

คcoordinates in all four quadrants

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transformations (translation, reflection, rotation)

## Revision: Coordinates



1) What are the coordinates of $B$ and C (x-value, $y$-value)

A (4, -2)

3) Draw a cross in position (-4, -2)

Question 1


## Complete

## Question 2



## Complete

## Question 3

| $\begin{aligned} & \text { Qhat do you } \\ & \text { notice? } \end{aligned}$ | $A B C D$ is a rectangle drawn on coordinate axes. <br> The sides of the rectangle are parallel to the axes. | What do you know? |
| :---: | :---: | :---: |
| Can you show your working out? |  | How could you extend the question? |
|  | What are the coordinates of $\mathbf{D}$ and $\mathbf{E}$ ? <br> $E$ is $\square$ ( , ) |  |

## Revision: Transformations

## Transformations are ways of changing or moving shapes.

We are revising three forms of transformations

$$
\begin{aligned}
& \text { 1. Translation } \\
& \text { 2. Reflection } \\
& \text { 3. Rotation }
\end{aligned}
$$

## 1. Translation

Change position by moving or sliding but not changing size or turning it



## Revision: Transformations

2. Reflection - change position by flipping (mirror line) but not turning

3. Rotation - change position by turning a figure around a point by a certain amount of degrees but not changing the size

$90^{\circ}$ turn around point $X$

## Revision: Transformations

Say if the following is a:

1) Translation
2) Reflection
3) Rotation

2. 


3.



## Question 4

## Complete



Can you show your working out?


Write the correct letter in these sentences:
a) Shape $\qquad$ is a reflection of shape $A$
b) Shape C is a $\qquad$ of shape $A$
c) If you rotate Shape C $\qquad$ - it will have the same orientation as Shape D

What do you know?

## Question 5

## Complete

| QWhat do you notice? |  | What do you know? |
| :---: | :---: | :---: |
| Can you show your worklng out? | This pattern is made by turning a shape clockwise through $90^{\circ}$ each time. <br> Draw the two missing triangles on the last shape. | How could you extend the question? |

## Question 6

## Complete



## Let's review:


. Can describe 2D coordinates in all four quadrants

- Can identify, describe and represent the position of a shape following translation, reflection and rotation

Draw a circle around the smiley face to show how you feel about what we've just been doing.


Is there something you would like to go over?

