7/4 Maths w/c 4th May 2020

1. We are learning how to use letters to label shapes.

When we are discussing shapes in maths, how can we tell someone which line or vertex (corner) we are talking about without being able to point at it? It can be a bit tricky.

In maths, letters are used in a particular way so that we can talk about the lines and vertices (corners) on shapes clearly and without confusion.

Look at this example below and then try to answer the questions after it.

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  |  |
|  |  |  |
| D |  | C |

1) How are the corners labelled?

2) Are the letters capitals or lower case?

3) What do you notice about the order of the letters?

4) If I wanted to talk about the vertex (corner) on the top on the left, what could I call it?

5) Why does it make it easier to describe when we give the vertices (corners) letters?

5) The blue line would be called AB. Can you explain why?

6) We would not call it BA. Why do you think that might be?

7) What would we call the red line? Can you explain why?

Here is another shape.

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

We can also see that we have a number of shapes here.

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

The green shape shows a rectangle. We would say “Shape ABDE is a rectangle.”

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

The purple lines show we also have a triangle. We would say “Shape CDE is a triangle.”

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

Finally, we have a trapezium. What would we say for this?

“Shape \_\_\_\_\_\_\_\_ is a trapezium.”

We can also use letters to help us talk about angles.

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

If I wanted to describe the size of this angle, I would call it ‘Angle CDE’. Can you see why?

The middle letter is always the letter at the corner of the angle we are talking about. The two letters either side (i.e. C\_\_E) are talking about the other ends of the two lines that come from the angle. As before, we put them in alphabetical order.

What would I call this angle?

|  |  |  |
| --- | --- | --- |
| A |  | B |
|  |  | C |
|  |  |  |
| E |  | D |

More tricky – what would I call this one?



Choice of task – pick one only and complete below.

*Easier*

Draw a rectangle and label the vertices KLMN.

Draw a line segment from point L to point N.

Use three letter notation to identify the triangles formed within the rectangle.

*Harder*

Draw a trapezium and label the vertices KLMN.

Draw a line from point L to point N.

Use three letter notation to identify the triangles formed within the trapezium.