Maths WB 13.07.20
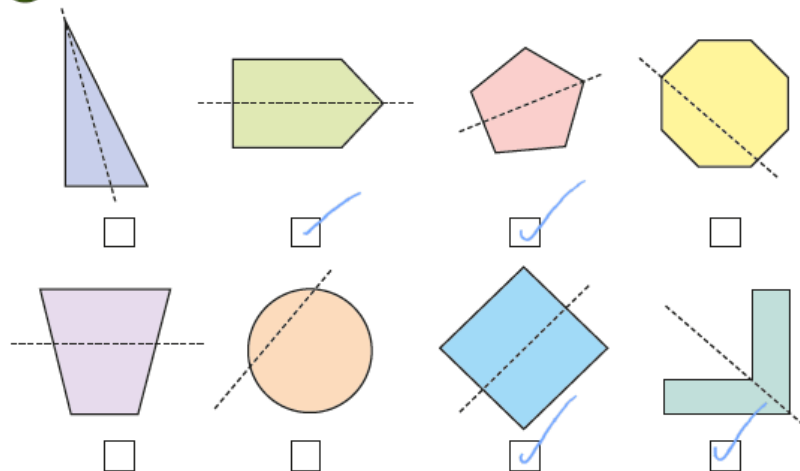
Monday 13th July 2020
LO: Lines of symmetry
To start this week, we would like you to investigate lines of symmetry. Remember, if something has a line of symmetry, everything on one side of the line is a mirror image of what is on the other side of the line.

1 Tick the shapes that have at least one line of symmetry.
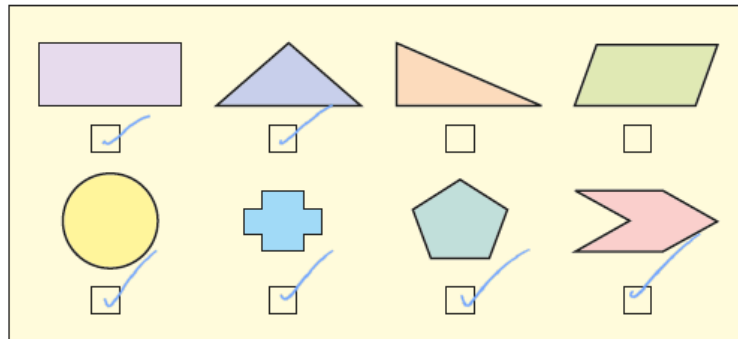
2 Tick the shapes that show a correct line of symmetry.
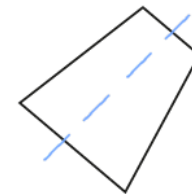
How did you know which shapes to tick?
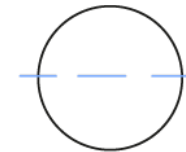
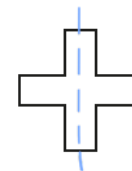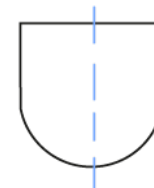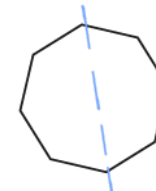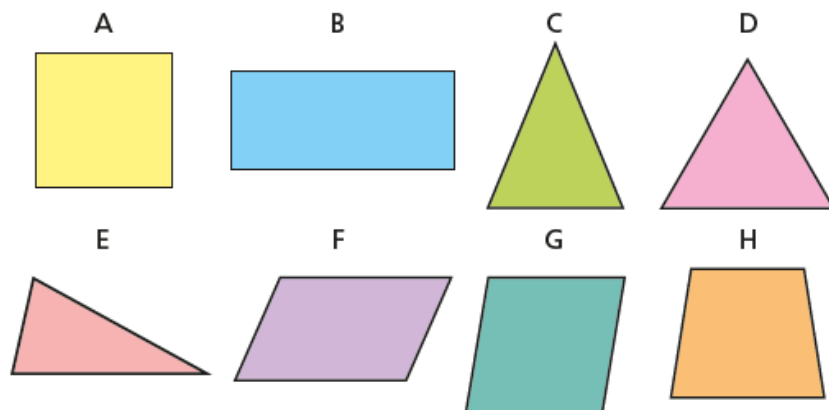**3** Draw one line of symmetry on each shape.

e.g.

a)

b)

c)

d)

e)

f)

g)

h)

Is there more than one possible answer for each?

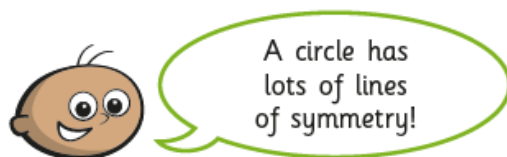**4** Sort the shapes into the table.

The first one has been done for you.

A

B

C

D

E

F

G

H

	1 line of symmetry	More than 1 line of symmetry	No lines of symmetry
Triangle	C	D	E
Quadrilateral	H	G A B	F

5 Tommy is folding a paper circle to find lines of symmetry.

A circle has lots of lines of symmetry!

Do you agree with Tommy? _yes_

Talk about it with a partner.

6 Here are 3 logos.

White Rose Maths

AOA

Dora: All of these logos have lines of symmetry because they're circles.

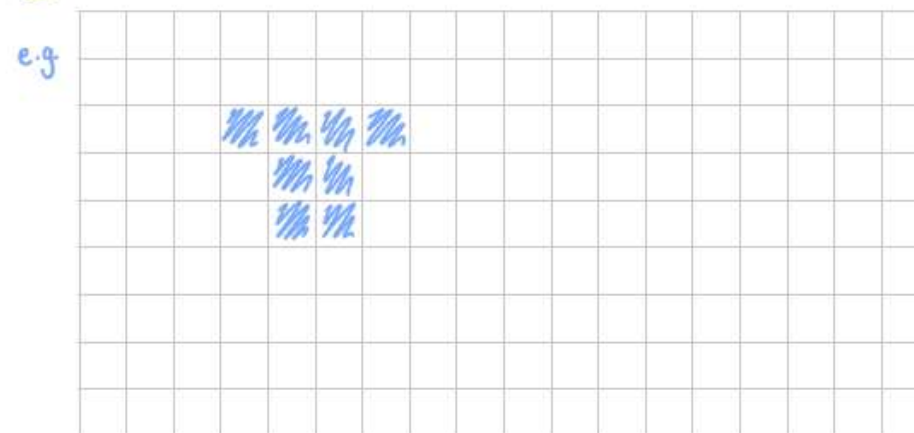*Mo:* I disagree because the design on them isn't symmetrical.
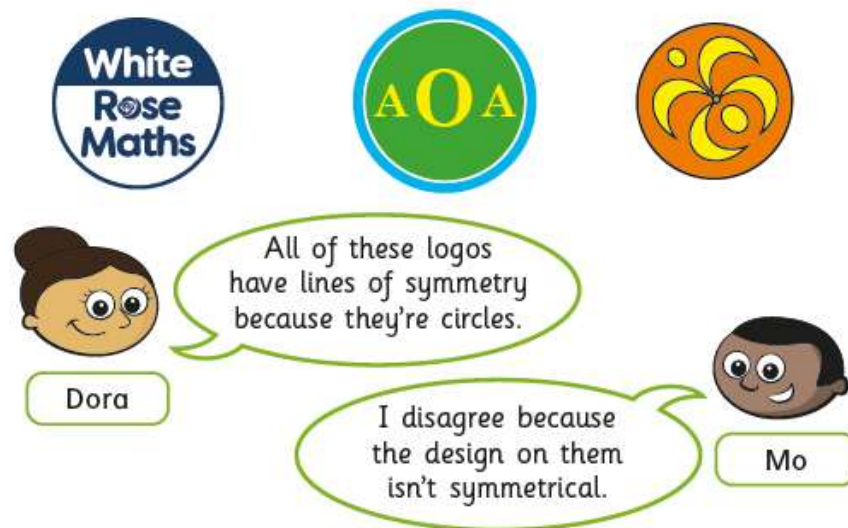
Who do you agree with? ___Mo___

Talk about it with a partner.

7 Shade a maximum of 8 squares to make a symmetrical shape.

e.g

Compare answers with a partner. How many different shapes can you make?

Maths WB 13.07.20

Tuesday 14ᵗʰ July 2020
LO: Complete a symmetric figure
Today, we would like you to practise completing symmetric figures. You need to think about where the line of symmetry is, and what it would look like if you had a mirror on that line.

1 Shade squares to make the patterns symmetrical.

a)

c)

b)

d)
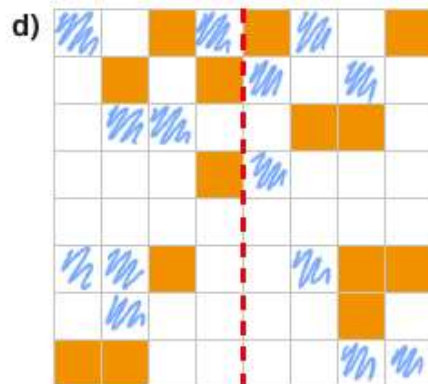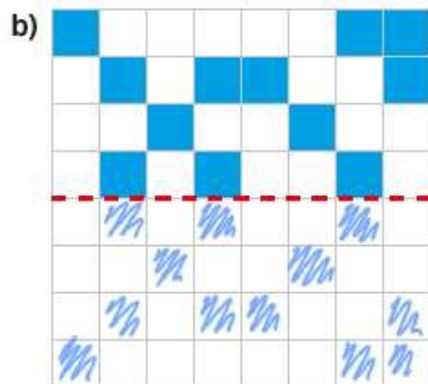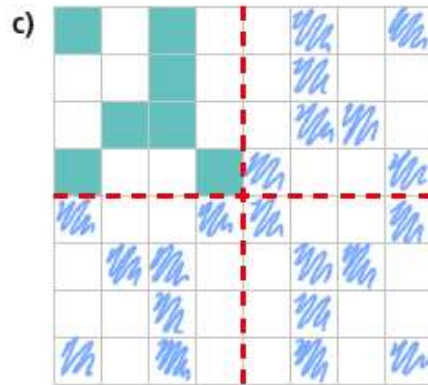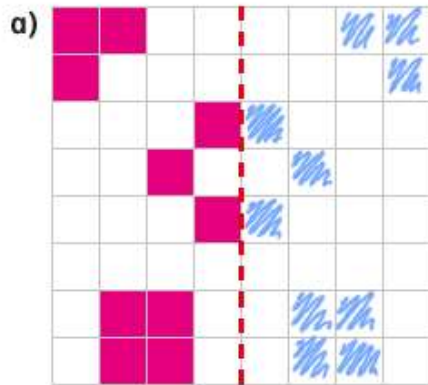
2 Complete the shapes according to the lines of symmetry.
Name each shape once you have drawn it.

a)

square

c)

triangle

b)

rectangle

d)
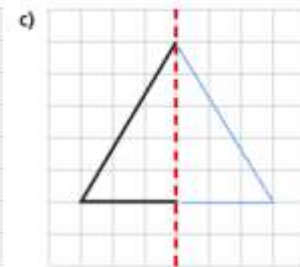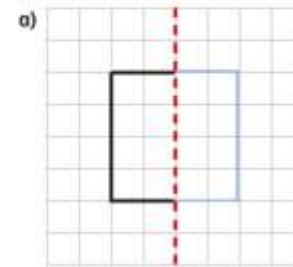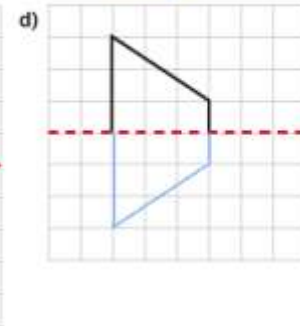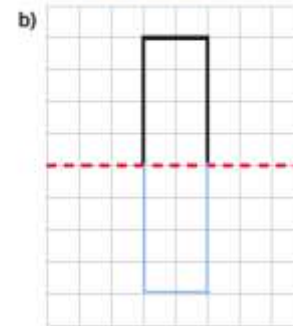
trapezium

3 Reflect the shapes in the given mirror line.

a)

b)
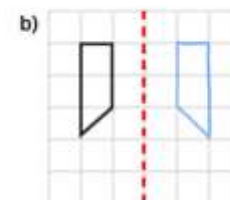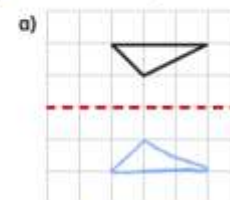
4 Each pattern is symmetrical around the mirror line.

Complete the patterns.

a)

b)

c)
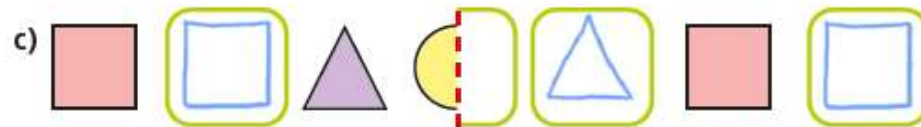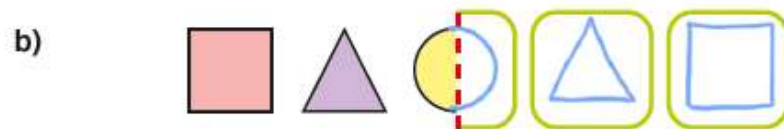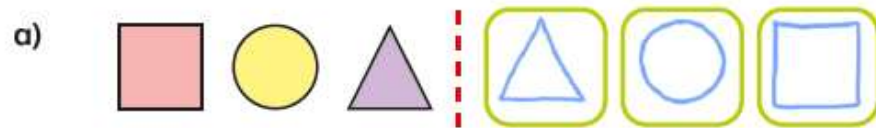
5 Shade squares to make the patterns symmetrical.

a)

b)
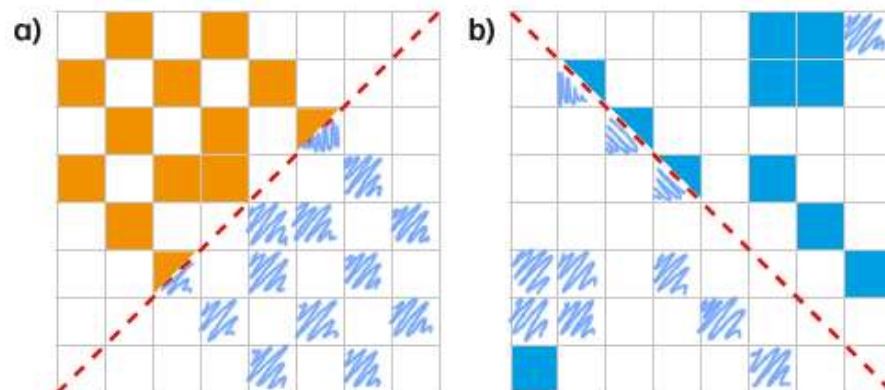
6 Complete the symmetric figures.

a)

c)

b)

d)

7 Complete the symmetric figure.

Create your own question like this for a partner.

Maths WB 13.07.20

Wednesday 13th July 2020
LO: Describe position
Today, we would like you to practise describing the position of an object in relation to other things using co-ordinates. Remember: you need to go ALONG THE CORRIDOR (right along the x axis) before going UP THE STAIRS (up the y axis).

1 Here is a map of part of a town.
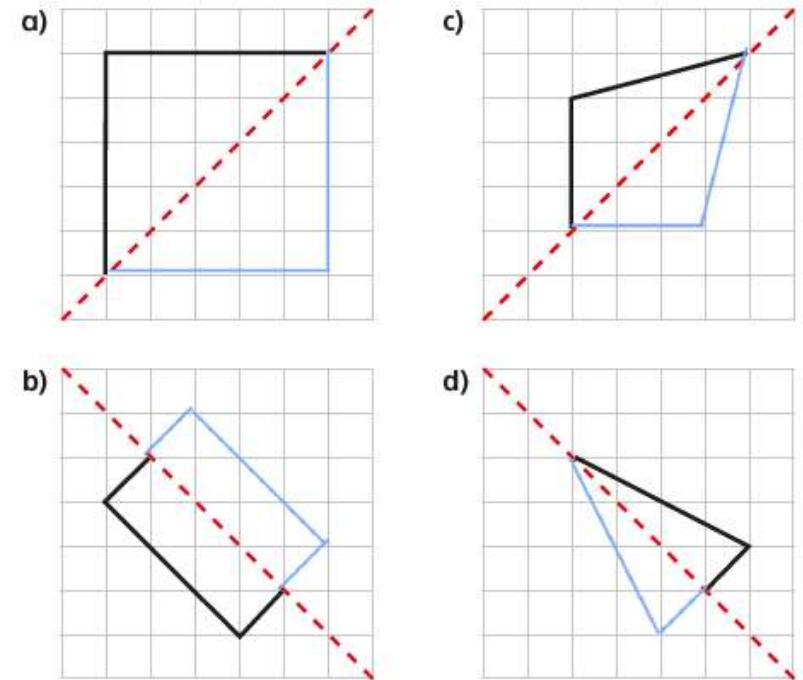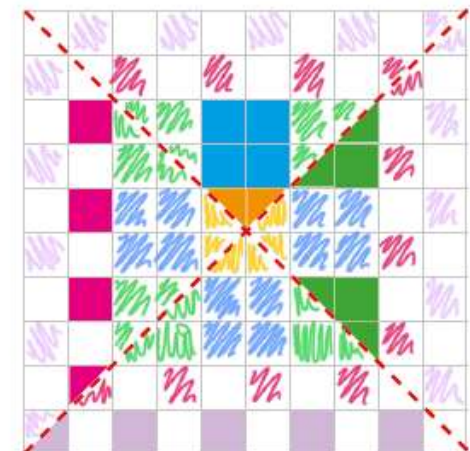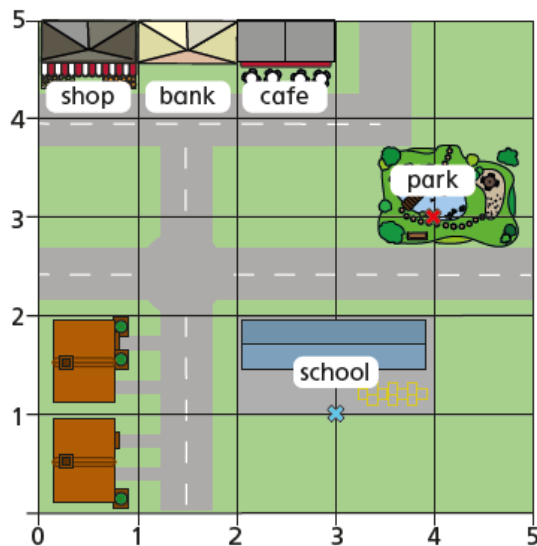
a) Which place is next to the shop? _bank_

b) Which place is next to the bank and close to the park? _cafe_

c) The front gates of the school have been marked with a cross. Write the coordinates of the school gates. (3 , 1)

d) The slide in the park has been marked with a cross. Write the coordinates of the slide. (4 , 3)

Compare answers with a partner.

2 A map of the world is drawn on a grid. Some locations are marked at points A to E.
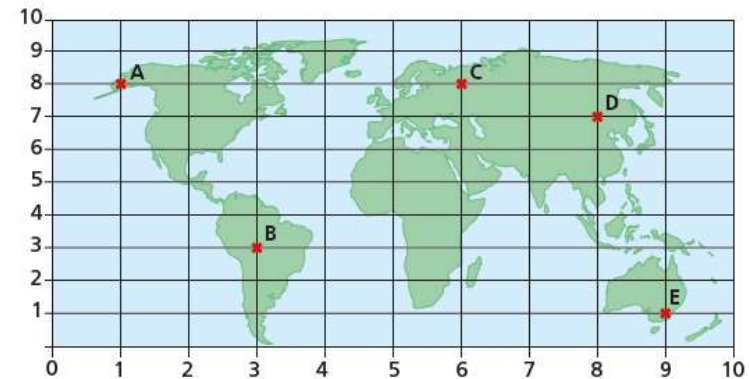
a) Which point is at the bottom right of the grid? _E_

b) Which two points are to the left of point C on the map? _A_ and _B_

c) Write the coordinates of each location.

A (1 , 8)   D (8 , 7)

B (3 , 3)   E (9 , 1)

C (6 , 8)

3 Some shapes are drawn on a grid.
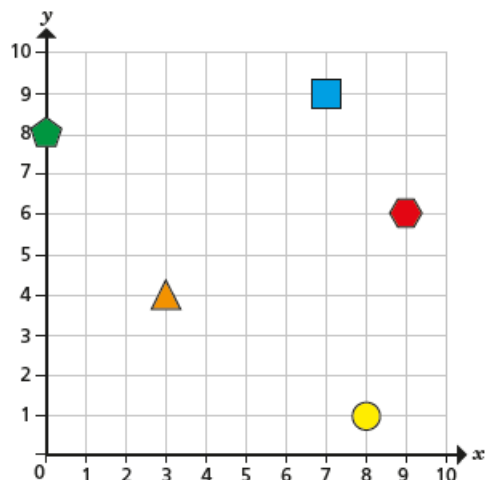
a) Tommy, Dora and Eva are working out the coordinates of the pentagon.

Dora: The coordinates of the pentagon are (0, 8).

Tommy: The coordinates of the pentagon are (8, 0).

Eva: I think you are both right!
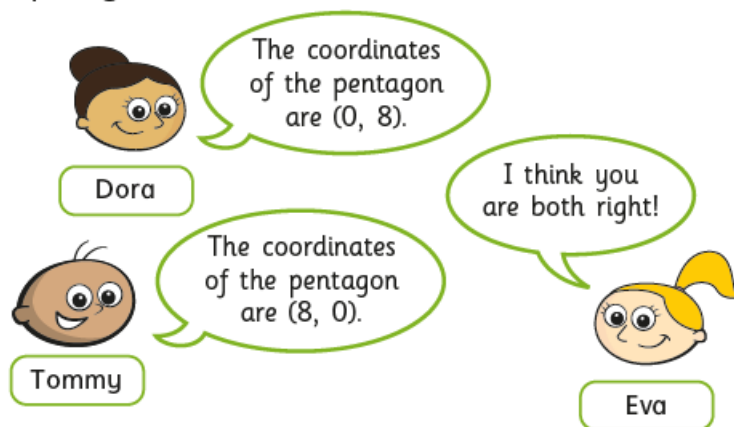
Who is correct? __Dora__

Talk about it with a partner.

b) Write the coordinates of the other shapes.

square (7 , 9)　　　triangle (3 , 4)

circle (8 , 1)　　　hexagon (9 , 6)

4 Six points are drawn on a grid.
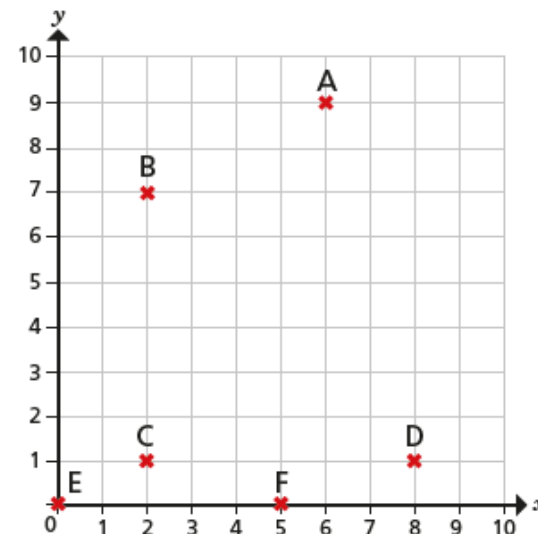
a) Write the coordinates of each point.

A (6 , 9)　　C (2 , 1)　　E (0 , 0)

B (2 , 7)　　D (8 , 1)　　F (5 , 0)

b) Teddy and Alex each choose a point.

Teddy: Our x coordinates are the same.

Alex: My y coordinate is greater than Teddy's.

What points have Alex and Teddy chosen?

Alex (2 , 7)　　Teddy (2 , 1)

Today's teaching video is available at https://whiterosemaths.com/homelearning/year-4/. Select Summer – Week 12 and lesson 4.

Thursday 16ᵗʰ July 2020

LO: Draw on a grid

Today, we would like you to practise plotting coordinates on a grid. Remember, you go ALONG THE CORRIDOR (right along the x axis) THEN UP THE STAIRS (up the y axis), Draw your points as a cross to make your plots more accurate (the centre of the cross is where your point is).
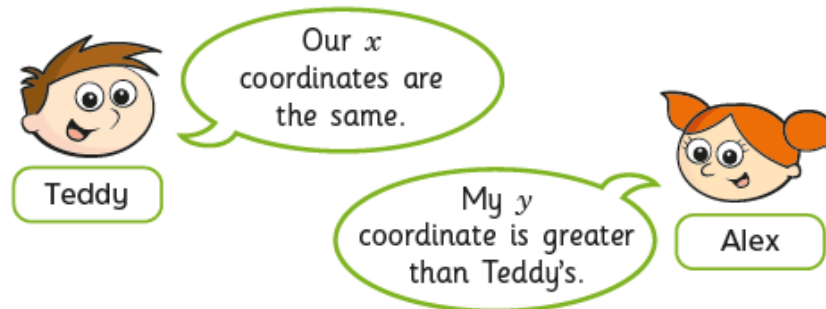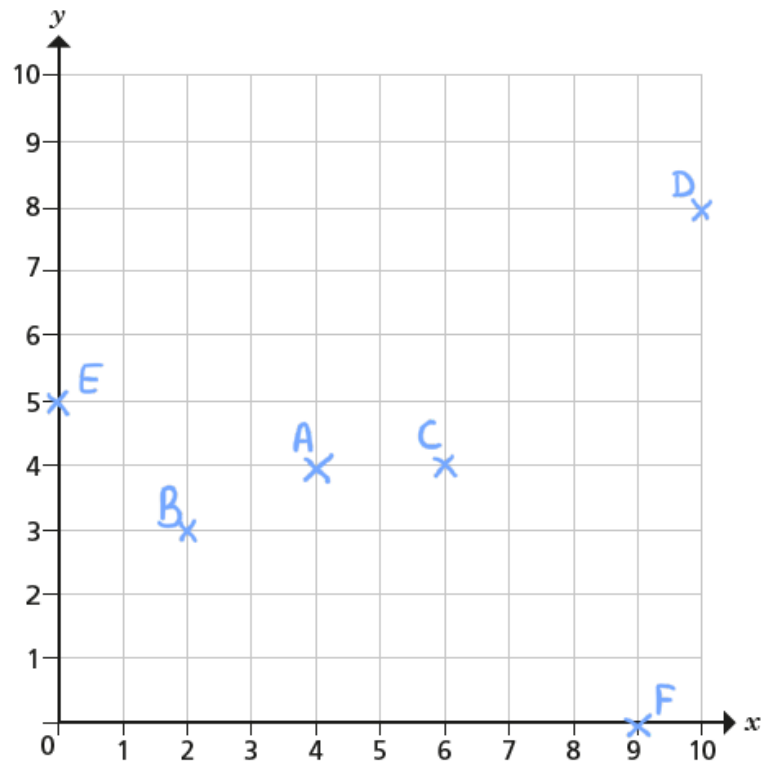
1 The cards show the coordinates of six points.

| A (4, 4) | B (2, 3) | C (6, 4) |

| D (10, 8) | E (0, 5) | F (9, 0) |

Plot and label the points on the grid.

2 Here are the coordinates of three points.

| X (1, 3) | Y (2, 5) | Z (3, 7) |

a) Plot and label the points on the grid.
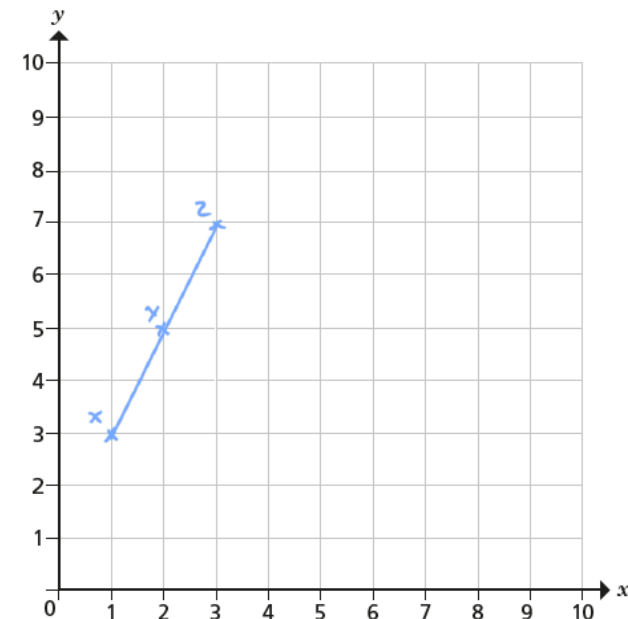
b) Join up the points.

What do you notice?

c) Write the coordinates of two other points that fit this pattern.

e.g (0 , 1) and (4 , 9)

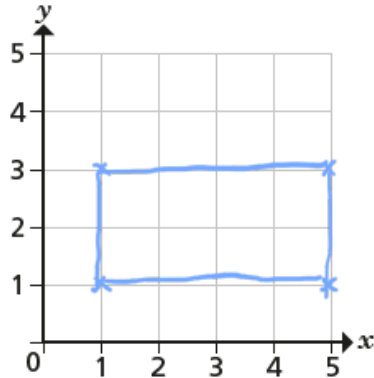**3** Here are the coordinates of the vertices of a rectangle.

| (1, 1) | (5, 1) | (1, 3) | (5, 3) |

Draw the rectangle on the grid.

4 Two squares are drawn on a grid.

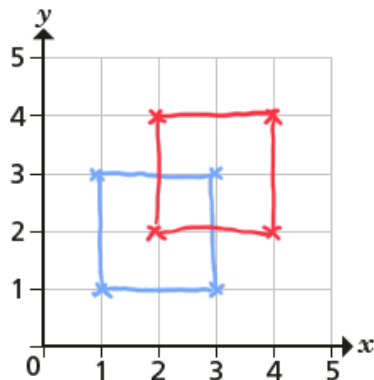Here are the coordinates of the vertices of each square.

Square A (1, 1) (1, 3) (3, 3) (3, 1)
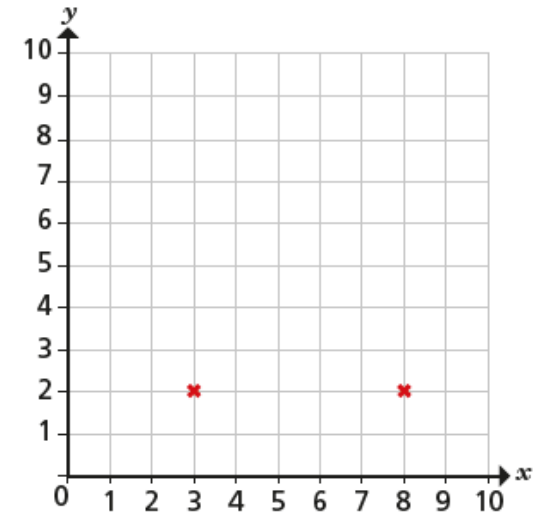
Square B (2, 2) (2, 4) (4, 4) (4, 2)

a) Do you think the squares will overlap? _Yes_

b) Draw on the grid to check your answer.

5 Two vertices of a triangle are shown on the grid.

a) What are the coordinates of the two vertices shown?

(3 , 2) and (8 , 2)

b) Give a possible coordinate for the third vertex, if the triangle is right-angled.   e.g (3 , 10)

c) Give a possible coordinate for the third vertex, if the triangle is isosceles.   e.g (8 , 7)

Compare answers with a partner.

6 The coordinates of one vertex of a square are (10, 10).

Give possible coordinates for the other three vertices.

e.g. (0 , 0)   (0 , 10)   (10 , 0)

How many different answers can you find?

Friday 17th July 2020

LO: Arithmetic: Today we'd like you to practise some mental arithmetic. You may use the space underneath the questions for your workings out!

1 $21 + 100 =$

121

1 mark

4 $\frac{1}{12} + \frac{7}{12} =$

$\frac{8}{12}$

1 mark

2 $112 - 30 =$

82

1 mark

5 $3729 - 1000 =$

2729

1 mark

3 $72 \times 5 =$

360

1 mark

6 $5621 + 2983 =$

8604

1 mark

7 | 9 x 7 =

63

1 mark

8 | 318 x 7 =

2226

1 mark

9 | $\frac{9}{10} - \frac{3}{10} =$

$\frac{6}{10}$

1 mark

10 | 7.3 + 0.8 =

8.1

1 mark

11 | 72 ÷ 10 =

7.2

1 mark

12 | 4.6 + 0.13 =

4.73

1 mark