

## Maths Planning and Ideas

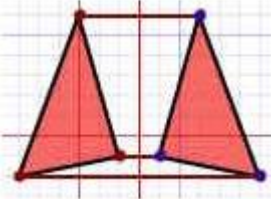


**Week Commencing: 06.07.20**

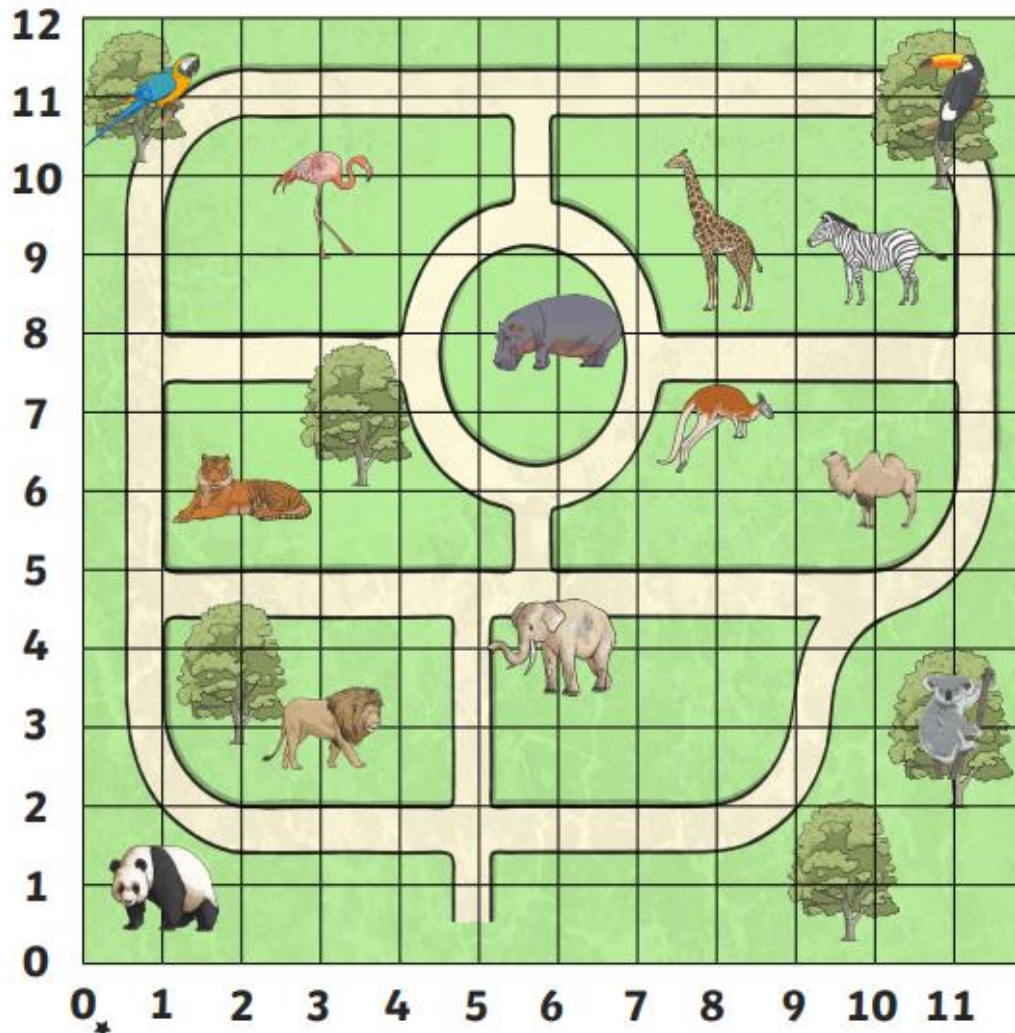
**Year Group: Year 5**

This week's planning is all about **position and direction**. You may remember some of this from Year 4. It is a fun topic and I hope that you enjoy completing the worksheets. Have fun!

Times Table Rockstars website - <https://trockstars.com/>

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Area of Learning</b>	<b>LC: Can you read use coordinates? Part 1</b>	<b>LC: Can you read and use coordinates? Part 2</b>	<b>LC: Can you translate shapes?</b>	<b>LC: Can you reflect shapes?</b>	<b>Symmetry Investigation</b>
<b>Activity</b>	<p><b>Starter – Complete Times Table Rockstars activities. See the link above.</b></p> <p>In today's and tomorrow's lessons, you are going to be looking at <b>coordinates</b>. Look at this website link below. Watch the videos to remind yourself how to use coordinates.  <a href="https://www.bbc.co.uk/bitesize/topics/zgthvcw/articles/z96k9qt">https://www.bbc.co.uk/bitesize/topics/zgthvcw/articles/z96k9qt</a></p> <p><b>Activity</b> Complete the zoo coordinates worksheet below. The answers are included.</p>	<p><b>Starter – Complete Times Table Rockstars activities. See the link above.</b></p> <p>This lesson is similar to yesterday's lesson. However, it is a little bit more challenging as you are plotting all of the coordinates yourself. Remember the phrase 'along the corridor and up the stairs' to remind you that you must look along the bottom part of the graph first then the side to plot your coordinate.</p> <p><b>Activity</b> Put a small cross in the coordinates and draw the lines to create a shape. It should look like a windmill.</p>	<p><b>Starter – Complete Times Table Rockstars activities. See the link above.</b></p> <p>In Maths, <b>translation</b> means moving an object without changing it in any way. It is not rotated, reflected or re-sized. Watch this video link below. You can stop watching at 2.18 as this is something you will learn in Year 6.  <a href="https://www.youtube.com/watch?v=8DtZ5fBe7_Q">https://www.youtube.com/watch?v=8DtZ5fBe7_Q</a></p> <p><b>Activity</b> In part 1 of the worksheet, follow the instructions to describe how Shape A has been translated to Shape B. In part 2, it is the other way round – you have to translate the shapes based on the instructions.</p>	<p><b>Starter – Complete Times Table Rockstars activities. See the link above.</b></p> <p>In Maths, <b>reflection</b> means a flip over a mirror line. The reflection is the same size as the original image. The central line is called the mirror line. Here is an example below. Watch this video link below.    <a href="https://www.youtube.com/watch?v=AEOw7QRjGqQ">https://www.youtube.com/watch?v=AEOw7QRjGqQ</a></p> <p><b>Activity</b> Complete the shape reflections in the mirror line. There is also an extension if you are feeling confident.</p>	<p><b>Starter – Complete Times Table Rockstars activities. See the link above.</b></p> <p>In Maths, <b>symmetry</b> means two (or more) identical parts that look exactly the same reflected through a mirror line. Watch the video on this link  <a href="https://www.bbc.co.uk/bitesize/topics/zrhp34j">https://www.bbc.co.uk/bitesize/topics/zrhp34j</a></p> <p><b>Activity</b> Complete the butterfly activity.</p>

Monday Worksheet – Coordinates Worksheet









Which animal is at these coordinates on the zoo map?

(11,11) = \_\_\_\_\_ (2,6) = \_\_\_\_\_

(6,8) = \_\_\_\_\_ (3,10) = \_\_\_\_\_

(11,3) = \_\_\_\_\_ (1,1) = \_\_\_\_\_

Write the coordinates of these animals on the zoo map:

	= _____		= _____
	= _____		= _____
	= _____		= _____

Draw your own zoo animals at these coordinates on the map:

(6,1)                      (2,9)                      (7,3)

(8,3)                      (8,6)                      (11,1)

### Monday Worksheet Answers

Which animal is at these coordinates on the zoo map?

(11,11) = toucan      (2,6) = tiger

(6,8) = hippo      (3,10) = flamingo

(11,3) = koala      (1,1) = panda

Write the coordinates of these animals on the zoo map:



= (1,11)



= (6,4)



= (3,3)



= (10,6)

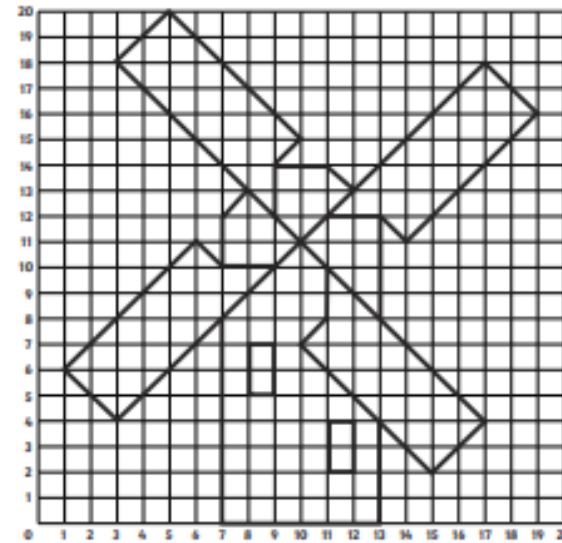


= (10,9)

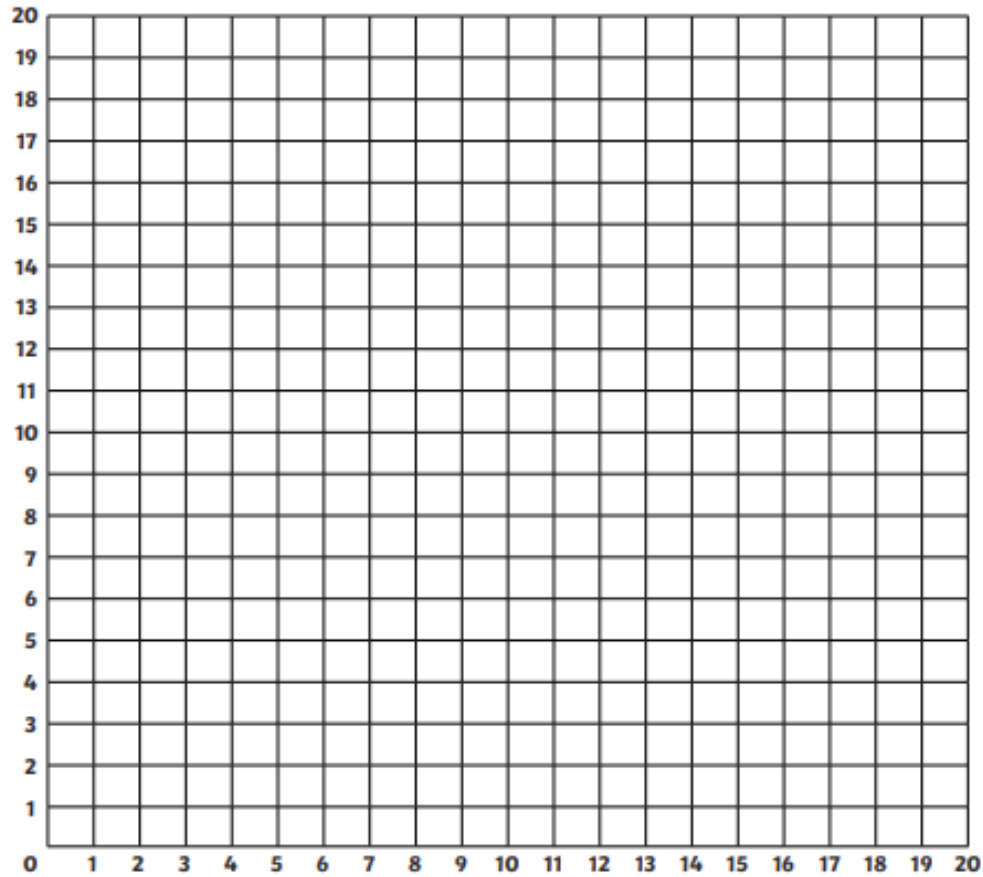


= (8,7)

### Tuesday Worksheet Answers



Tuesday Worksheet



**Plot these co-ordinates to make a picture of a windmill:**

Line 1: (8,13), (7,12), (7,10)

Line 2: (11,10), (11,8), (10,7), (15,2), (17,4), (3,18), (5,20), (10,15), (9,14), (9,12)

Line 3: (13,12), (13,8)

Line 4: (9,14), (11,14), (12,13)

Line 5: (13,4), (13,0), (7,0), (7,8)

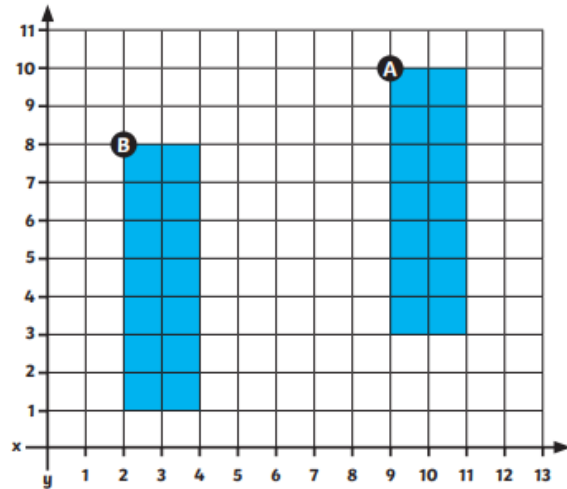
Line 6: (8,7), (8,5), (9,5), (9,7), (8,7)

Line 7: (11,12), (13,12), (14,11), (19,16), (17,18), (3,4), (1,6), (6,11), (7,10), (9,10)

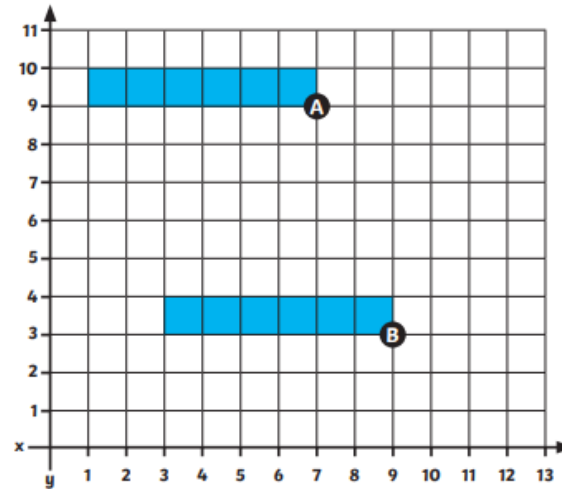
Line 8: (11,4), (12,4), (12,2), (11,2), (11,4)

Wednesday Worksheet – Part I

1.



2.



In this section of the worksheet, describe how these shapes have been translated from A to B. Begin with the left/right and then up/down.

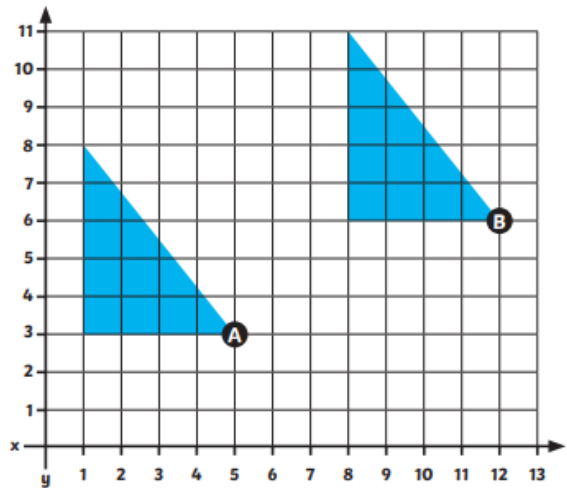
For example *6 squares right and 3 squares up.*

1 \_\_\_\_\_

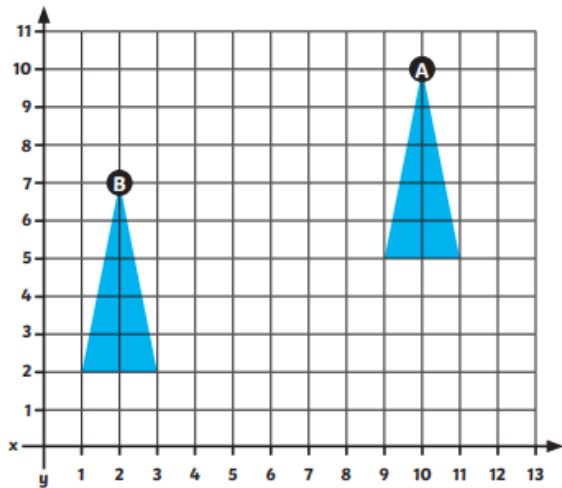
2 \_\_\_\_\_

3 \_\_\_\_\_

3.

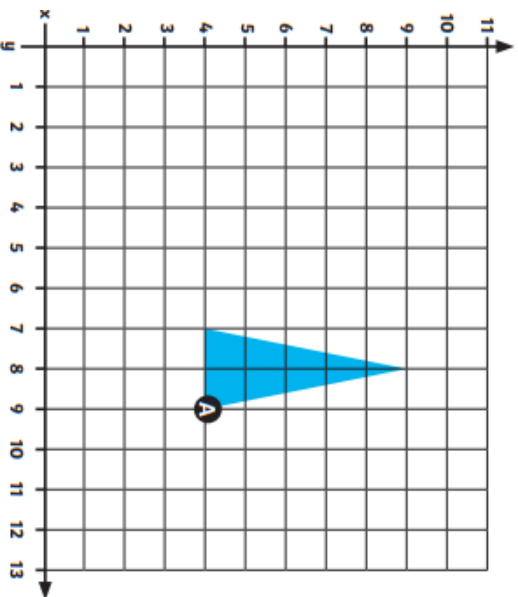


4.

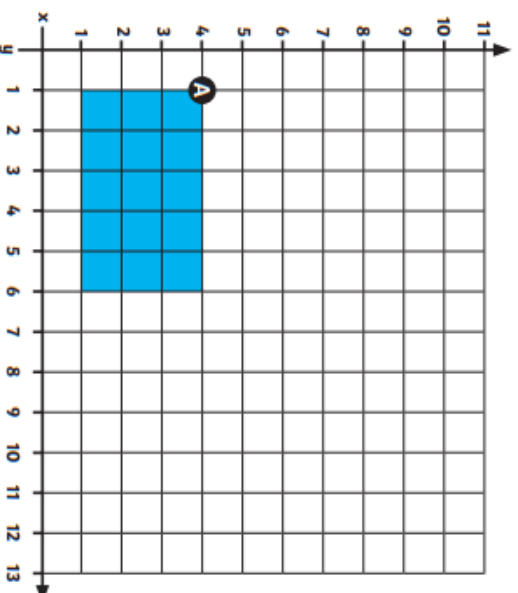


4 \_\_\_\_\_

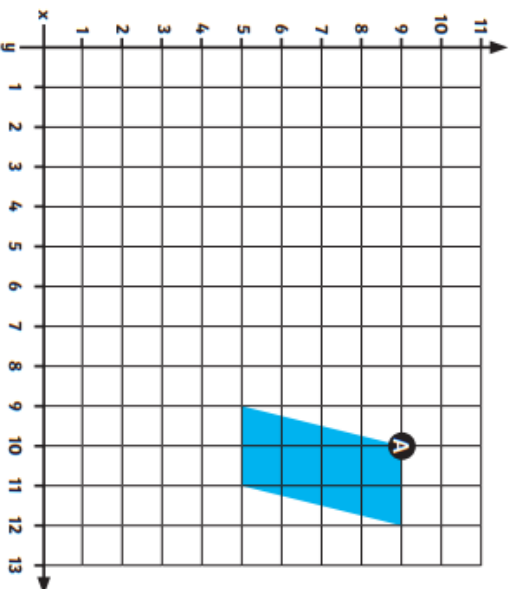
- 5.** Shape A has been translated 6 squares left and 4 squares down.



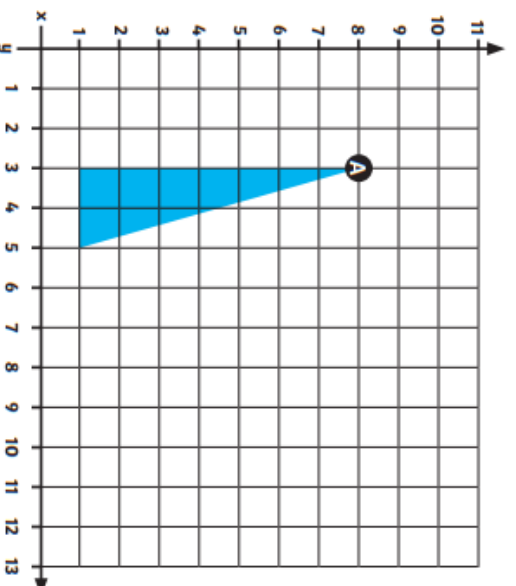
- 6.** Shape A has been translated 7 squares right and 5 squares up.



- 7.** Shape A has been translated 8 squares left and 1 square down. Draw the new shape and write the coordinates.



- 8.** Shape A has been translated 6 squares right and 1 square up. Draw the new shape and write the coordinates.



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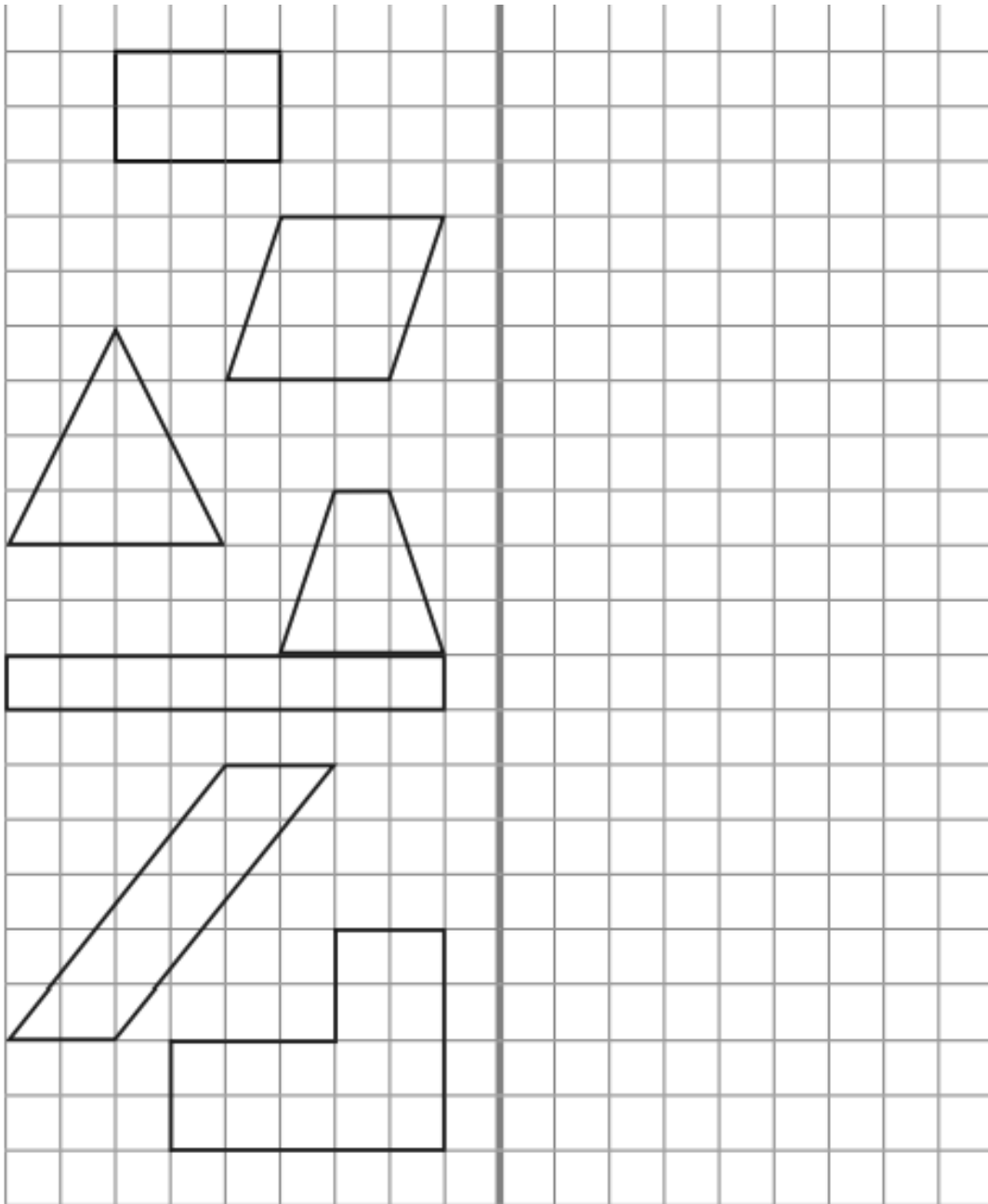
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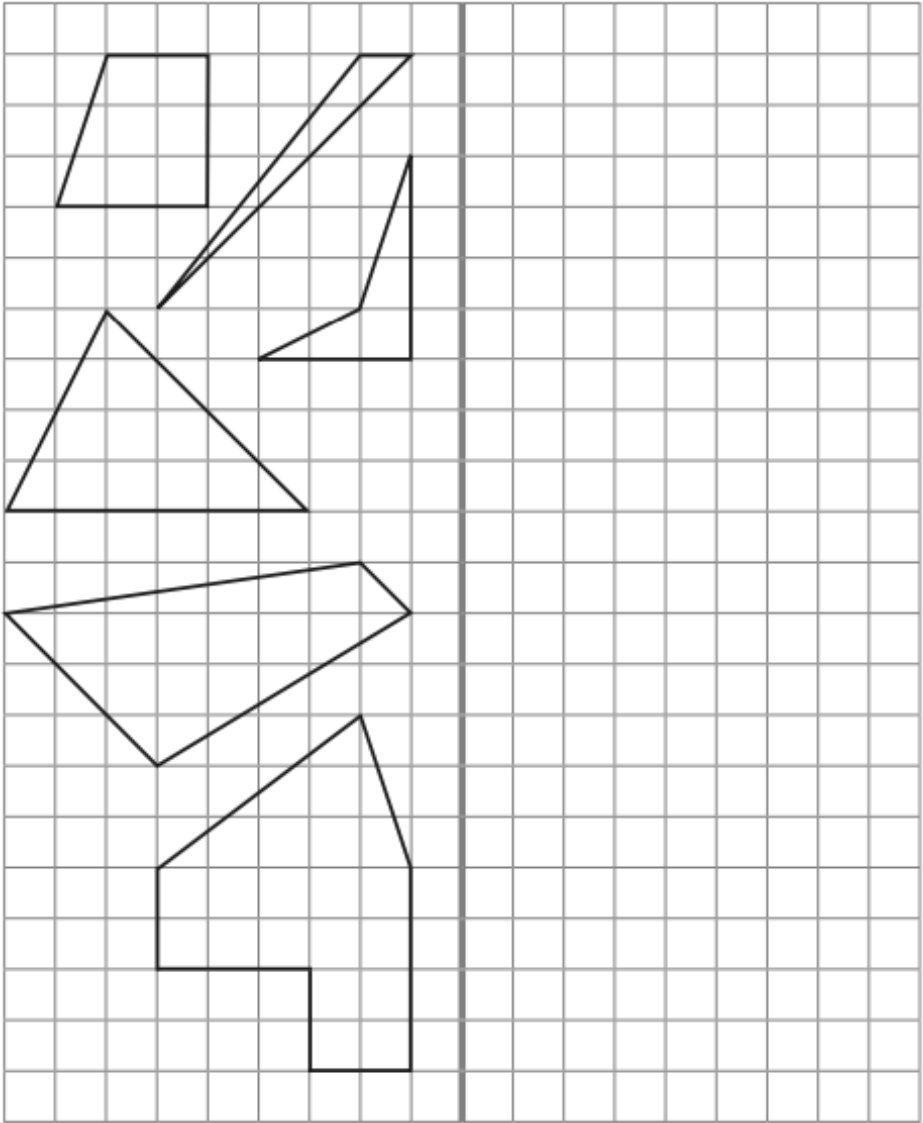
### Wednesday Answers

1. The rectangle has been translated 7 squares left and 2 squares down.
2. The rectangle has been translated 2 squares right and 6 squares down.
3. The right-angled triangle has been translated 7 squares right and 3 squares up.
4. The isosceles triangle has been translated 8 squares left and 3 squares down.
5. The shape is an isosceles triangle.  
B – (1,0) (3,0) (2,5)
6. The shape is a rectangle.  
B – (8,9) (8,6) (13,6) (13,9)
7. B – (4,8) (2,8) (1,4) (3,4)
8. B – (9,9) (9,2) (11,2)

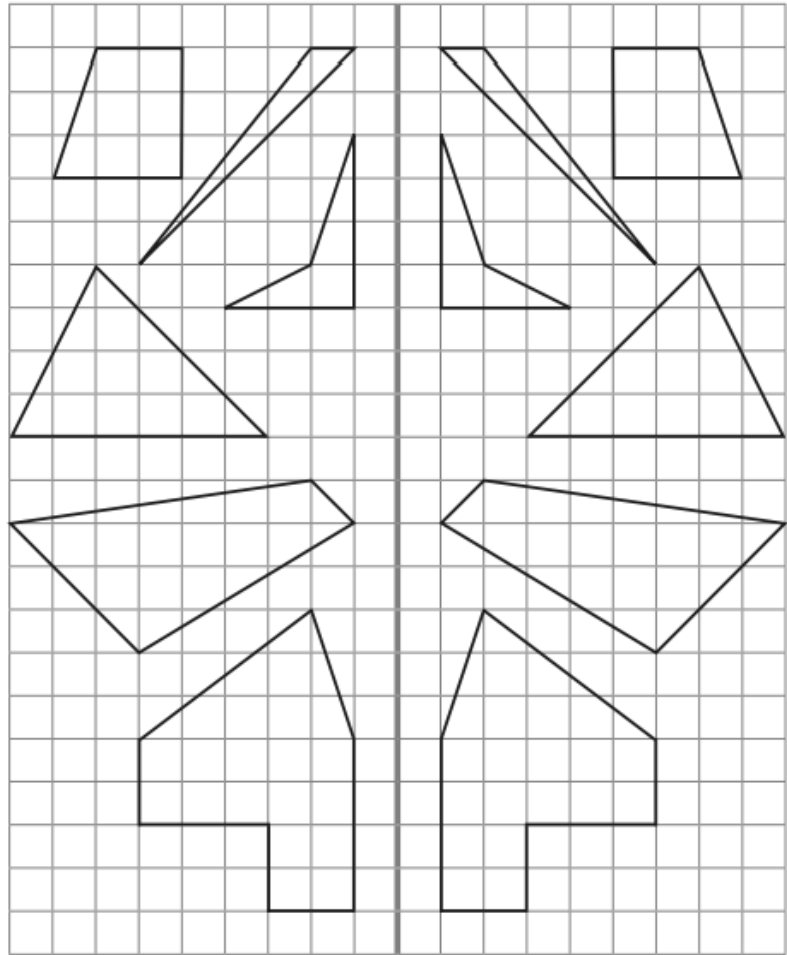
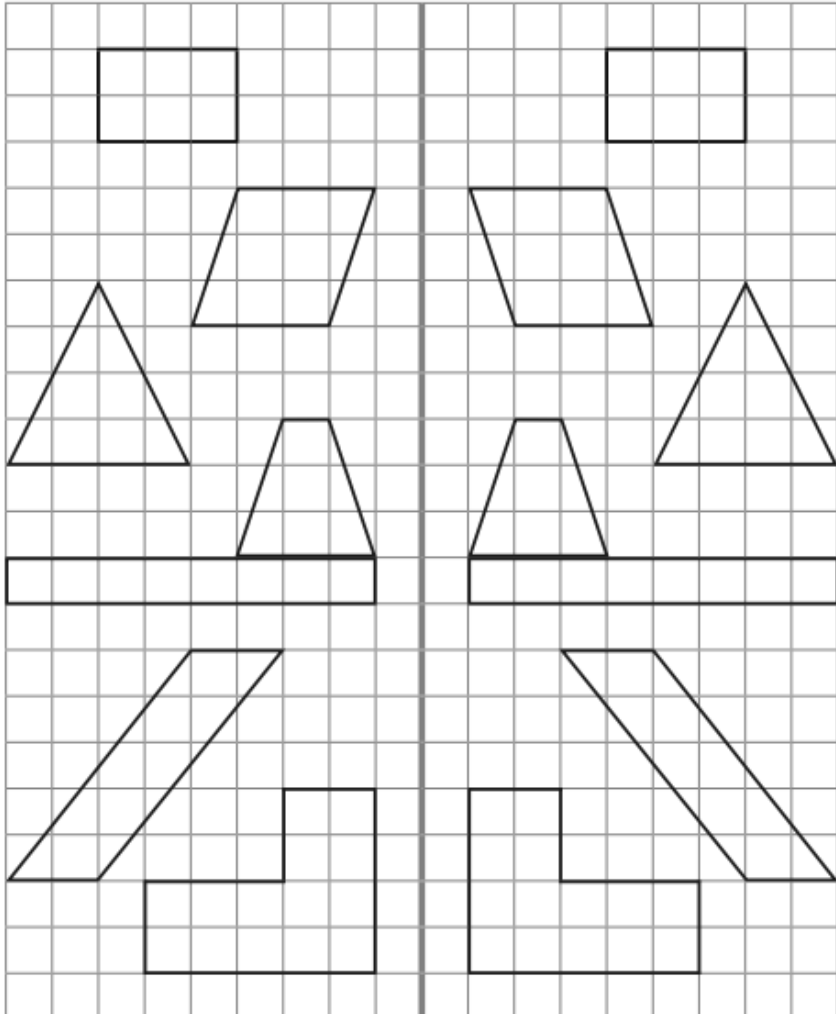




Thursday Extension



Thursday Answers



Friday Activity – Draw a symmetrical pattern on the butterfly. Remember, whatever you do on one side, it needs to look exactly the same on the other side (including colours)

