

Year Five Maths Lesson 3



Fluency Starter

- Keep up your daily practice of 5 a day https://corbettmathsprimary.com/5-a-day/ and challenge yourself to Bronze, Silver, Gold or Platinum!
- Or Complete Flashback 4 for your daily starter (on the next slide).
- Log on to Doodlemaths for 15 minutes each day and try and keep in the Green Zone.
- There are also some Maths activities on Purple Mash to complete.



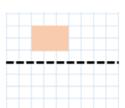
Fluency Starter

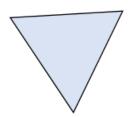
Flashback



Year 5 | Week 8 | Day 3

1) Reflect the shape in the mirror line.

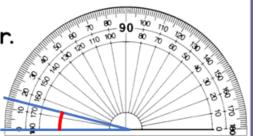




- 2) How many faces does a hexagonal prism have?
- 3) Read the angle shown on the protractor.



$$3\frac{1}{4}, 2\frac{3}{4},$$
, $\frac{3}{4}$





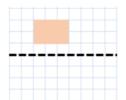


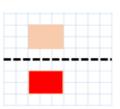
Fluency Starter Answers

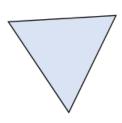
Flashback 4

Year 5 | Week 8 | Day 3

1) Reflect the shape in the mirror line.





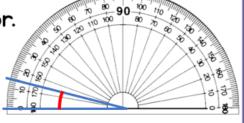


- 2) How many faces does a hexagonal prism have?
- 3) Read the angle shown on the protractor.

15°



$$3\frac{1}{4}, 2\frac{3}{4},$$
, $1\frac{3}{4}$ $2\frac{1}{4}$





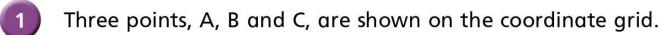


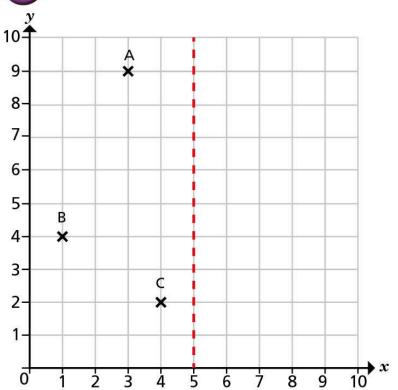
Lesson Aims

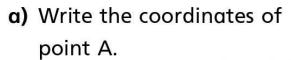
• I can reflect coordinates in a mirror line

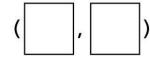
White Rose Maths

Reflection with coordinates





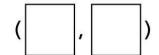




Reflect point A in the mirror line.

Label this new point D.

Write the coordinates of point D.

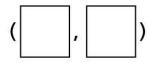




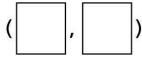


1

b) Write the coordinates of point B.Reflect point B in the mirror line.Label this new point E.Write the coordinates of point E.



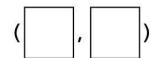
c) Write the coordinates of point C.



Reflect point C in the mirror line.



Label this new point F.



Write the coordinates of point F.

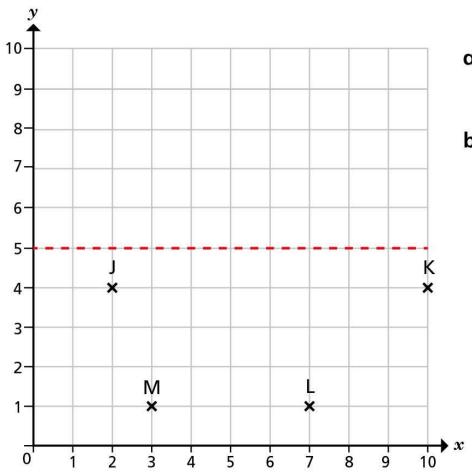
What do you notice? Talk about it with a partner.







Four points are plotted on the coordinate grid.



- a) Join the points to form a trapezium.
- **b)** Reflect the trapezium in the given mirror line.



2

c) Complete the table to show the coordinates of each point before and after the reflection.

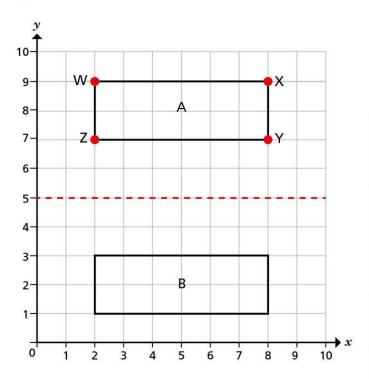
Vertex	Coordinate before reflection	Coordinate after reflection
J		
K		
L		
М		

What do you notice about the coordinates?





Object A is reflected in the mirror line to give image B.



Complete the table to show the coordinates of each vertex of the object and the image.

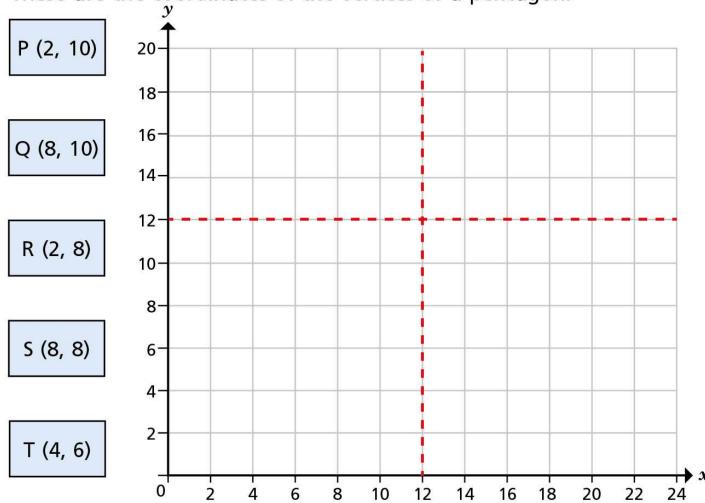
Vertex	Coordinate before reflection	Coordinate after reflection
W		
Х		
Y		
Z		

What do you notice about the coordinates?















- 4
- a) Draw the pentagon on the coordinate grid.
 Label this pentagon A. This is the object.
- b) Reflect the object in the horizontal mirror line. Label this image B.
- c) Reflect the object in the vertical mirror line. Label this image C.
- d) Complete the table to show the vertices of the object and the images.

Vertex	Coordinate (object)	Coordinate (image B)	Coordinate (image C)
Р			
Q			
R			
S			
Ţ			

Compare answers with a partner. What do you notice?



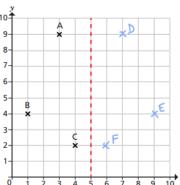


Fluency Activity Answers

Reflection with coordinates

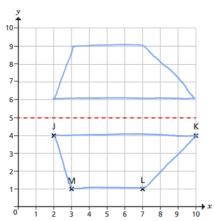


1 Three points, A, B and C, are shown on the coordinate grid.



- a) Write the coordinates of point A.
 Reflect point A in the mirror line.
 Label this new point D.
 Write the coordinates of point D.
- b) Write the coordinates of point B.
 Reflect point B in the mirror line.
 Label this new point E.
 Write the coordinates of point E.
- c) Write the coordinates of point C.
 Reflect point C in the mirror line.
 Label this new point F.
 Write the coordinates of point F.





- a) Join the points to form a trapezium.
- b) Reflect the trapezium in the given mirror line.
- c) Complete the table to show the coordinates of each point before and after the reflection.

Vertex	Coordinate before reflection	Coordinate after reflection
J	(2,4)	(2,6)
K	(10,4)	(10,6)
L	(1, F)	(7, 9)
М	(3,()	(3,9)

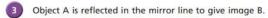
What do you notice about the coordinates?

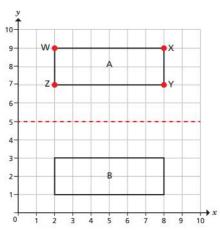






Fluency Activity Answers





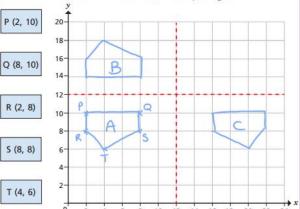
Complete the table to show the coordinates of each vertex of the object and the image.

Vertex	Coordinate before reflection	Coordinate after reflection
W	(2,9)	(2,1)
х	(8,9)	(8,1)
Y	(8,7)	(8,3)
Z	(2,7)	(2,3)

What do you notice about the coordinates?







- a) Draw the pentagon on the coordinate grid.
 Label this pentagon A. This is the object.
- b) Reflect the object in the horizontal mirror line. Label this image B.
- c) Reflect the object in the vertical mirror line. Label this image C.
- d) Complete the table to show the vertices of the object and the images.

Vertex	Coordinate (object)	Coordinate (image B)	Coordinate (image C)
Р	(2,10)	(2,14)	(22,10)
Q	(8,10)	(8,14)	(16,10)
R	(2,8)	(2,16)	(22,8)
S	(8,8)	(8,16)	(16,8)
Т	(4,6)	(4,18)	(20,6)

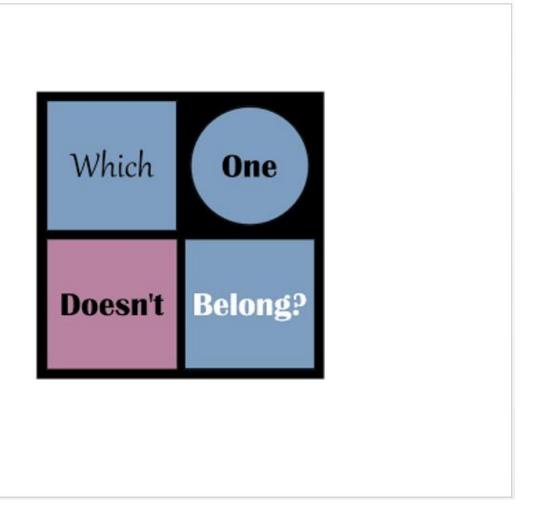
Compare answers with a partner. What do you notice?







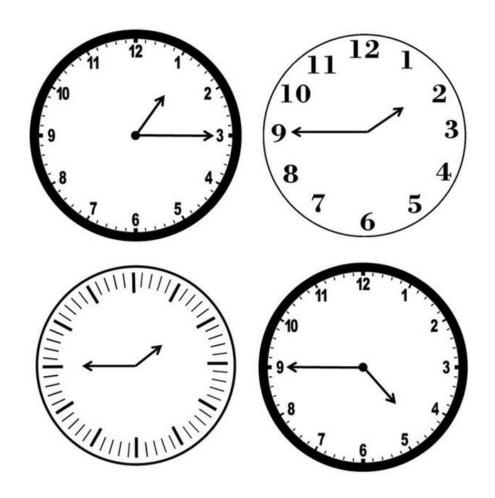
Problem Solving





Problem Solving

• How many ways can you find?





Problem Solving

- How many different ways did you find?
- Can you explain your reasoning?