



Year Five Maths Lesson 1



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.

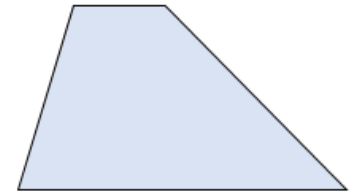
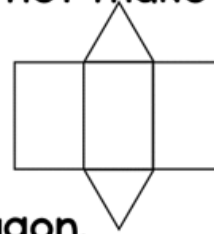


Fluency Starter

Flashback 4

Year 5 | Week 8 | Day 1

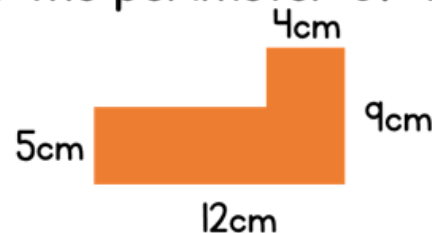
- 1) What 3D shape will this net make?



- 2) Draw an irregular pentagon.

- 3) What fraction of a full turn is 45° ?

- 4) Work out the perimeter of the compound shape.



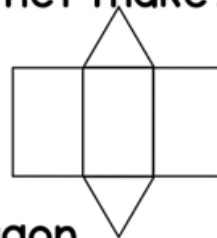


Fluency Starter Answers

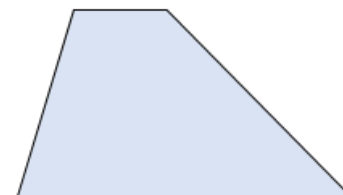
Flashback 4

Year 5 | Week 8 | Day 1

- 1) What 3D shape will this net make?



Triangular
prism



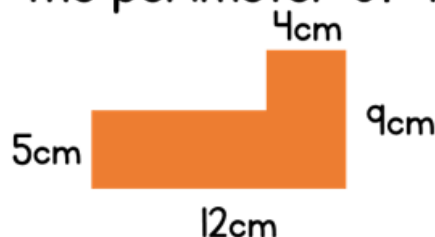
- 2) Draw an irregular pentagon.

Any 5 sided shape with
unequal sides and angles.

- 3) What fraction of a full turn is 45° ?

$\frac{1}{8}$

- 4) Work out the perimeter of the compound shape.



42cm

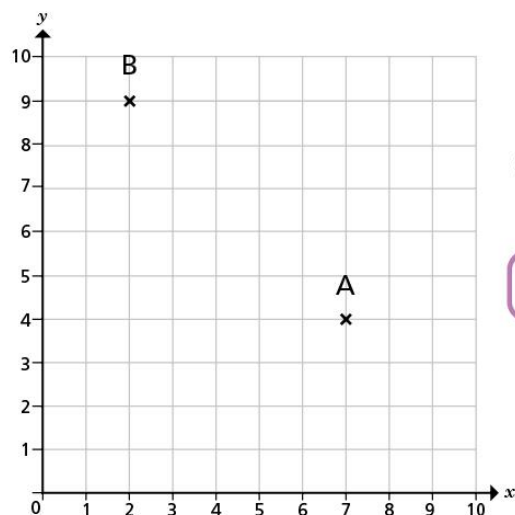


Lesson Aims

- I can plot coordinates in the first quadrant

Position in the first quadrant

1 Two points have been plotted on the coordinate grid.



a) Whitney and Jack are working out the coordinates of point A.



Whitney

The coordinates
of point A are (7, 4).



Jack

The coordinates
of point A are (4, 7).

Who do you agree with?

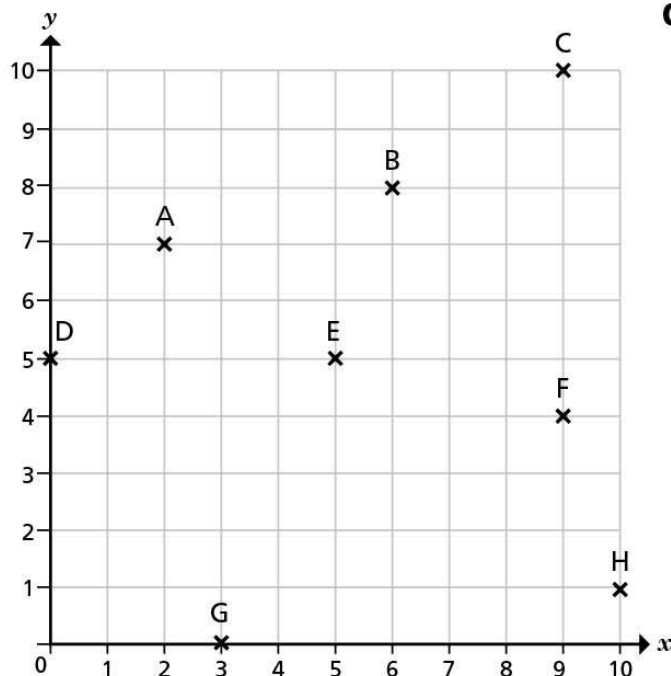
Talk about it with a partner.

b) Write the coordinates of point B.

(,)



2 Eight points have been plotted on the coordinate grid.



a) Write the coordinates of each point.

A (,) E (,)

B (,) F (,)

C (,) G (,)

D (,) H (,)

b) Which two points have the same x coordinate? _____ and _____

c) Which two points have the same y coordinate? _____ and _____

3 Plot the points on the coordinate grid.

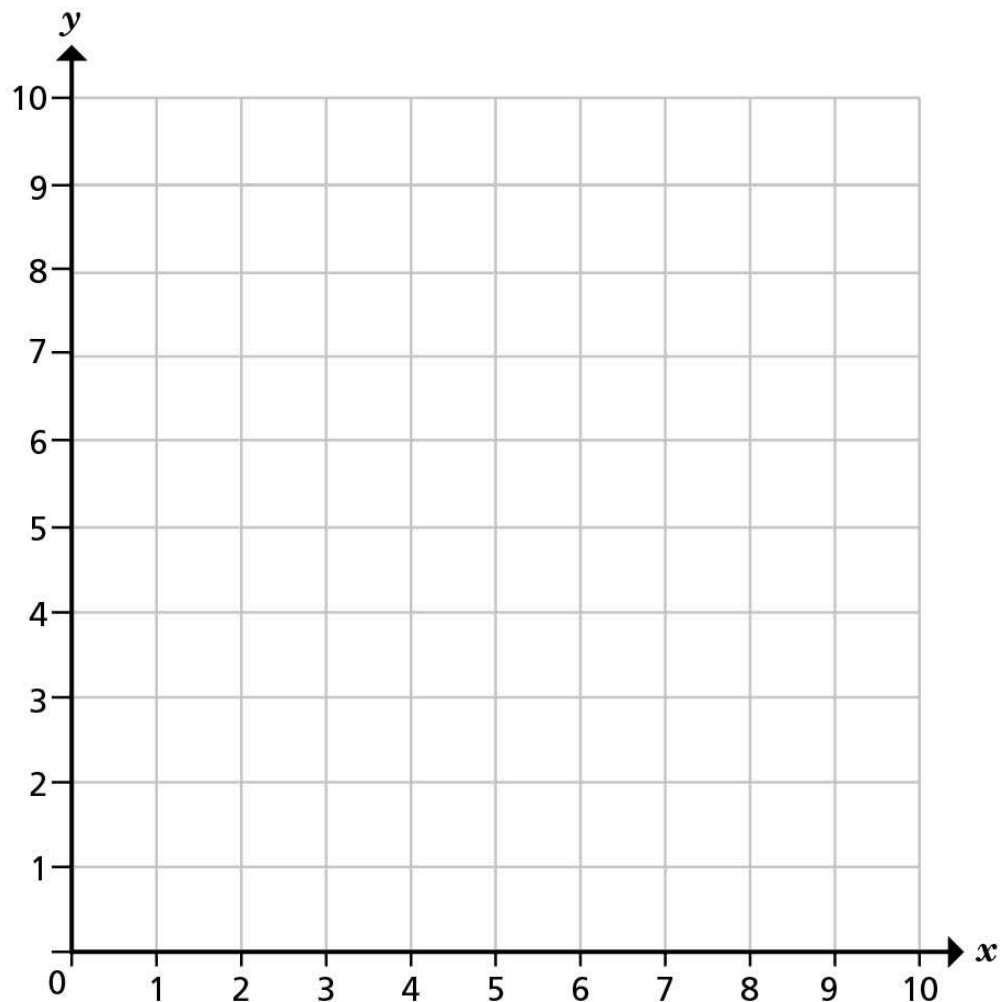
A (2, 5)

B (7, 3)

C (5, 1)

D (0, 9)

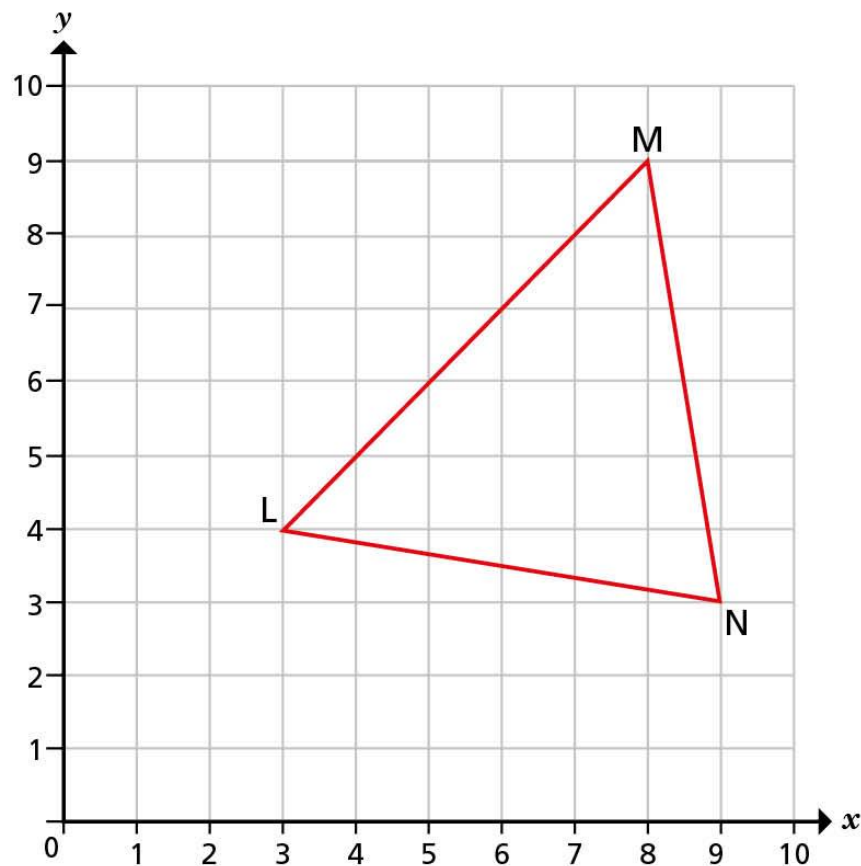
E (4, 0)



4

A triangle has been drawn on the coordinate grid.

Write the coordinates of each vertex of the triangle.



L (,)

M (,)

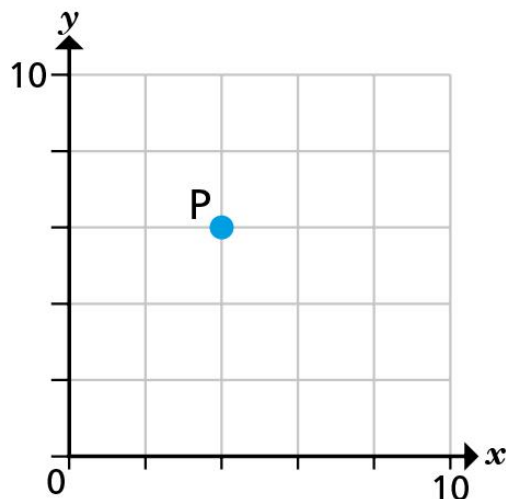
N (,)



5

Annie and Ron are working out the coordinates of point P.

Here are their answers.



Annie

(2, 3)



Ron

(4, 6)

Who do you agree with? _____

What mistake has the other person made?



6

A coordinate grid has been drawn on a page of centimetre squares.

- a) The coordinates of three vertices of a rectangle are $(0, 3)$, $(7, 3)$ and $(7, 0)$.

What are the coordinates of the fourth vertex?

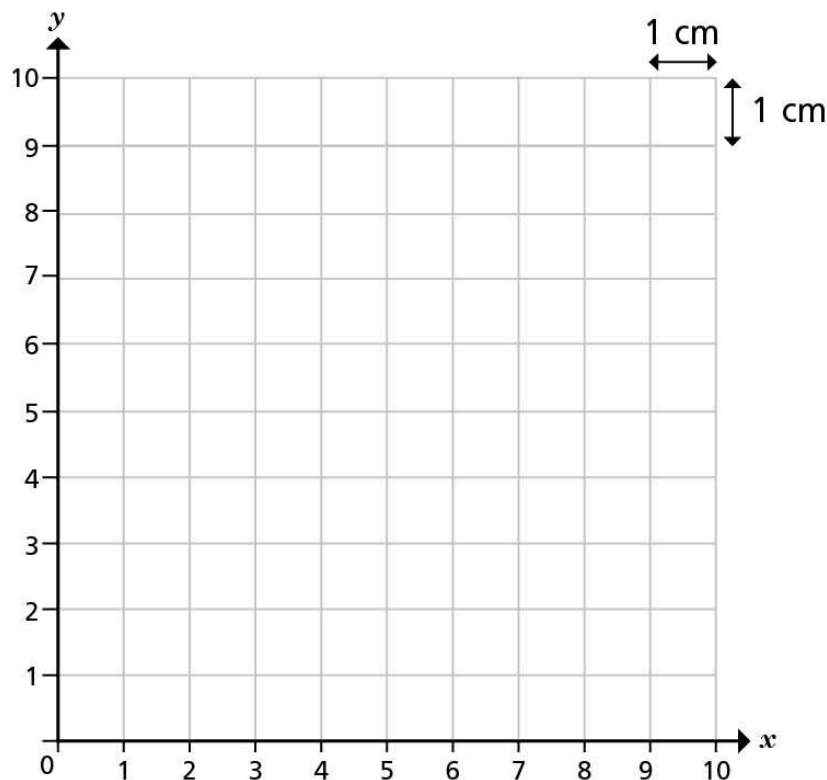
(,)

- b) Work out the area and perimeter of the rectangle.

area = cm^2

perimeter = cm

Compare answers with a partner.



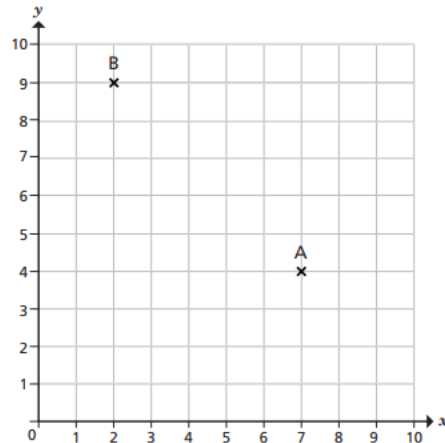


Fluency Activity Answers

Position in the first quadrant

White
Rose
Maths

- 1 Two points have been plotted on the coordinate grid.



- a) Whitney and Jack are working out the coordinates of point A.



The coordinates
of point A are (7, 4).

Whitney



The coordinates
of point A are (4, 7).

Jack

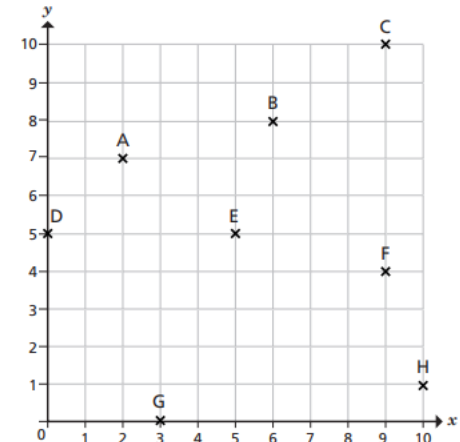
Who do you agree with?
Talk about it with a partner.

Whitney

- b) Write the coordinates of point B.

(2 , 9)

- 2 Eight points have been plotted on the coordinate grid.



- a) Write the coordinates of each point.

A (2 , 7)

E (5 , 5)

B (6 , 8)

F (9 , 4)

C (9 , 10)

G (3 , 0)

D (0 , 5)

H (10 , 1)

- b) Which two points have the same x coordinate? C and F

- c) Which two points have the same y coordinate? D and E



Fluency Activity Answers

- 3 Plot the points on the coordinate grid.

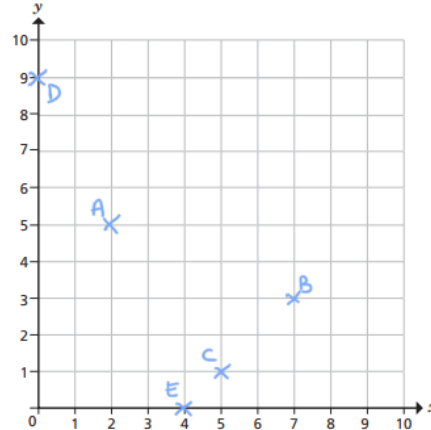
A (2, 5)

B (7, 3)

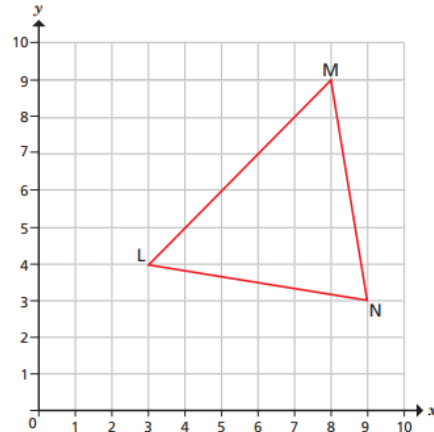
C (5, 1)

D (0, 9)

E (4, 0)



- 4 A triangle has been drawn on the coordinate grid.

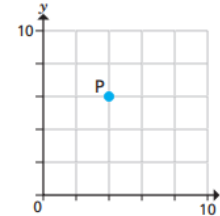


Write the coordinates of each vertex of the triangle.

L (3, 4) M (8, 9) N (9, 3)

- 5 Annie and Ron are working out the coordinates of point P.

Here are their answers.



Annie

(2, 3)



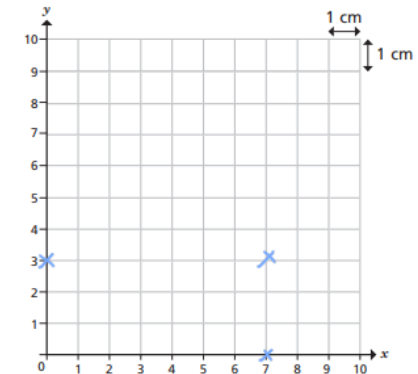
Ron

(4, 6)

Who do you agree with? Ron

What mistake has the other person made?

- 6 A coordinate grid has been drawn on a page of centimetre squares.



- a) The coordinates of three vertices of a rectangle are (0, 3), (7, 3) and (7, 0).

What are the coordinates of the fourth vertex? (0, 0)

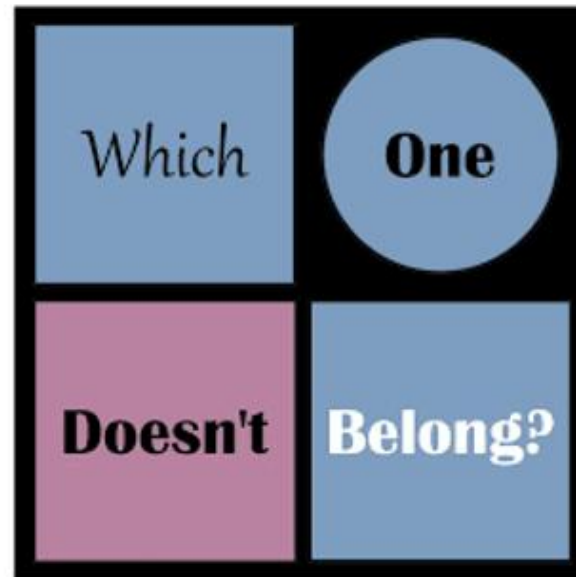
- b) Work out the area and perimeter of the rectangle.

area = 21 cm² perimeter = 20 cm

Compare answers with a partner.



Problem Solving





Problem Solving

- How many ways can you find?

$$\begin{array}{r} 5231 \\ + 4331 \\ \hline 9562 \end{array}$$

$$\begin{array}{r} 3696 \\ + 6939 \\ \hline 10,635 \end{array}$$

$$\begin{array}{r} 1842 \\ + 1614 \\ \hline 3456 \end{array}$$

$$\begin{array}{r} 2184 \\ + 4812 \\ \hline 6996 \end{array}$$



Problem Solving

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