

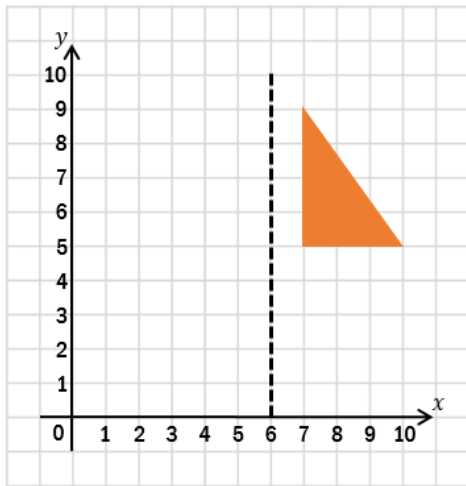


# West Byfleet Junior School

## Problem of the Week - Week 16



**2 Points**



Eva reflects the shape in the mirror line. She thinks that the coordinates of the vertices for the reflected shape are:

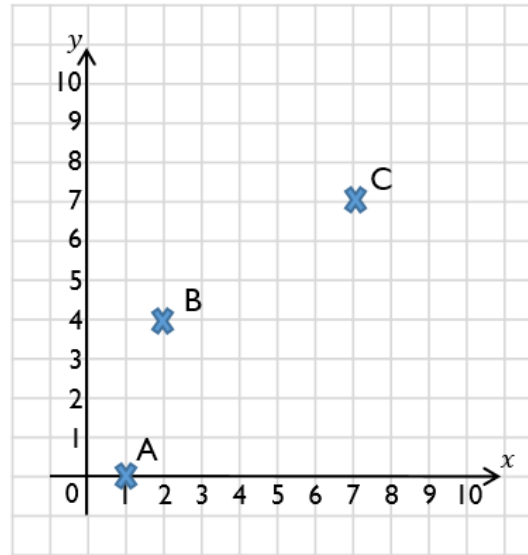
(5, 5)

(2, 5)

(2, 9)

Is Eva correct?  
Explain why.

**3 Points**



Which clue matches which coordinate?

Clue 1 My  $x$  coordinate is half of my  $y$  coordinate.

Clue 2 My  $y$  coordinate is less than my  $x$  coordinate.

Clue 3 Both my coordinates are prime numbers.

**5 Points**

These three coordinates have all been translated in the same way.

(\_, \_)  $\longrightarrow$  (3, 1)

(\_, 5)  $\longrightarrow$  (4, 3)

(4, \_)  $\longrightarrow$  (6, 1)

Can you work out the missing coordinates?

Describe the translation.

**Submit your solution** on or **before Wednesday 28 February** for your points to be added to the leaderboard, if your answer(s) are correct.

The leaderboard, weekly problems and solutions can be found on the school website under: Pupils - Our Curriculum- Mathematical Development- Problem of the Week