

$X$  and  $Y$  are whole numbers.

- $X$  is a one digit odd number.
- $Y$  is a two digit even number.
- $X + Y = 25$

Find all the possible pairs of numbers that satisfy the equation.

$x$	$y$
1	24
3	22
5	20
7	18
9	16

$x$  and  $y$  are both positive whole numbers.

$$\frac{x}{y} = 4$$

Jade says,



$x$  will always be a multiple of 4

Simon says,



$y$  will always be a factor of 4

Who is correct?

Prove it!

Possible answer:

Jade is correct as  $x$  will always have to divide into 4 equal parts. E.g.  $32 \div 8 = 4$ ,  $16 \div 4 = 4$

Simon is incorrect.  $40 \div 10 = 4$  and 10 is not a factor of 4