a and b are whole numbers.

$$a + b = 8$$

Complete the table to show different possible values for a and b.

a	0	1	2					
b								
$a + b$	8	8						

What patterns do you notice?

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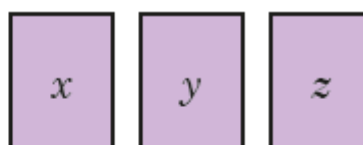- $X + Y = 25$

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

a and b are integers.

$$ab = 24$$

List all the possible values for a and b.

Rosie has three number cards.

| x | y | z |

- The sum of the cards is 12
- x is greater than y and y is greater than z.
- All the numbers are greater than zero.

List all the possible values of x, y and z.

x							
y							
z							

x and y are both positive whole numbers.

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

Dora says,

> x will always be a multiple of 4

Jack says,

> y will always be a factor of 4

Only one is correct – who is it?
Explain your answer.