

Maths Investigations – Week 1

Multiplication and Division

These investigations are to help you develop your problem-solving skills and your reasoning skills, you can do as many as you like. Please make sure you show your workings out, use jottings and anything else you might need to

Investigation 1 : Using Factor Pairs

Using arrays and any other method you like can you prove if Tommy is correct or incorrect.

Tommy says



The greater the number, the more factors it will have.

Is Tommy correct?

Use arrays to explain your answer.

Investigation 2: Multiply by 1 and 0

Which answer could be the odd one out?

What makes it the odd one out?

$$3 + 0 = \underline{\quad}$$

$$3 - 0 = \underline{\quad}$$

$$3 \times 0 = \underline{\quad}$$

Explain why the answer is different.

Investigation 3: Divide by 1

Mo says,



25 divided by 1 is
equal to 1 divided by
25

Do you agree?

Explain your answer.