

Maths Investigations – Week 2
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 your learning from this week, can you find the odd one out for these multiplication sentences.
How do you know this is the odd one out?

A.

T	O
● ● ●	● ●
● ● ●	● ●
● ● ●	● ●
● ● ●	● ●
● ● ●	● ●
● ● ●	● ●

B.

	3	2
x		7

C.

```
graph TD; A((32 x 6)) --- B((30 x 6)); A --- C((2 x 6));
```

Investigation 2

Adam thinks that both of the multiplications below are correct. Do you agree? Explain your answer.

	4	7	5
x			4
<hr/>			
1	9	0	0
<hr/>			
	3	2	

	4	8	5
x			3
<hr/>			
1	4	9	1
<hr/>			
	2	5	

Investigation 3

Rosie and Miguel are discussing the calculations below. Who is correct? Prove it.



Josie

I think only even divisors will give remainder 1 in this.



Miguel

I think there are more than 5 possible answers.

$$73 \div \square = \square r1$$
