Year 6
Last week – Day 1
LO – TBAT use BIDMAS to solve a murder mystery.

Task 1

Arithmetic

1	444,444 – 10,000 – 10,000 =
2	40,915 + 8,998 =
3	? + 20,002 = 33,333
4	–25 + 46 =
5	6,973 × 3
6	900,202 – 88,890
7	6,280 ÷ 9 =
8	90 × 900=

Task 2

Use BIDMAS to comete the following murder mystery.

JustMaths

Who, where and when?

Who?
One of the following four people has committed a crime. The criminal made 2 errors, the victim has made 1 error and the other two suspects have made 0 errors.

The ICT teacher made the following statements:

- (3 + 3) x 4 = 24
- 4 x 2 – 5 = 3
- (21 x 1) – 2 = 19
- 2 x 1 x 4 = 8

The history teacher made the following statements:

- (5 + 7) ÷ 6 = 2
- (5 x 4) + 2 = 22
- 5 x 3 + 5 = 20
- 10 - 3 x 3 = 21

The maths teacher made the following statements:

- (9 – 4) + 5 = 10
- 5 x (2 + 3) = 25
- 20 ÷ 4 + 1 = 6
- 20 ÷ (4 + 1) = 4

The English teacher made the following statements

- 2 x (15 – 2) = 26
- 7 – (4 + 2) = 5
- 14 + 6 x 3 = 60
- 24 ÷ 6 – 2 = 2

Where?
The murder was committed at one of the locations below, but which one? It happened where ALL the calculations are correct.

The maths classroom	$(2 + 3)^2 \div \sqrt{25} = 5$ $3^2 + 4^2 = 25$ $3 \times 4^2 + 3 \times 5^2 = 219$
The dining hall	$7 \times (4 \div 2) \div (3 \times 5 - 1) = 1$ $3 \times \sqrt{25} + 2 \times 3^2 = 153$ $5 \times 2 + 3 = 13$
The gym	$25 - 5 \times 4 + 3 = 83$ $6 + 3 \times 5 - 12 \div 2 = 15$ $15 - 5 \times 4 = 40$
The playing fields	$(3 + 4)^2 = 49$ $(2^3 + 6^2) \div (\sqrt{25} + 2 \times 3) = 4$ $2 \times (4 + 2)^2 = 72$

When?
Find the day where **BOTH statements** are correct:

Monday	• (3 x 6) x 2 = 3 x (6 x 2) • 3 x ? + 2 = 17 the missing number is 8
Tuesday	• (4 + 2) + 7 = 4 + (2 + 7) • ? x 8 – 2 = 22 the missing number is 8
Wednesday	• (8 – 2) – 1 = 8 – (2 – 1) • (2 x ?) – (14 ÷ 2) = 5 the missing number is 6
Thursday	• (8 ÷ 4) ÷ 2 = 8 ÷(4 ÷2) • 3 x (1 + ?) – (5 x 2) = 5 the missing number is 4
Friday	• 3 x 3 x 2 = (3 x 2) x 3 • 4 x (? + 2) – (24 – 5) = 1 the missing number is 3

The Accusation	
Who	
Where	
When	