Outcome 1 - The Order of Operations

Bronze examples

BODMAS Examples... $3 + 5 \times 2 = 3 + 10 = 13$ (Multiplication before addition!) $4 \times 8 - 7 = 32 - 7 = 25$ (Multiplication before subtraction!) $9 + 16 \div 2 = 9 + 8 = 17$ (Division before addition!)

Silver examples

Gold examples

Examples... **BODMAS**

$$14 + \sqrt{4} = 14 + 2 = 16$$
(Orders before addition!)

 $70 - (5 + 3)^2$ (Brackets first!)

 $= 70 - 8^2$ (Orders next!)

 $= 70 - 64$ (Finish with subtraction!)

Bronze Questions

Carry out the following calculations ...

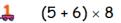
$$4 + 4 \times 3$$

$60 \div 5 - 12$

Silver Questions



Carry out the following calculations ...



$$(12 - 8) \times 6$$

$$3 \times (11 - 7)$$
 $4 9 \times (4 + 3)$

$$(19+5) \div 3$$
 $(25-7) \div 9$

$$(12-8) \times 4$$
 $(9-3)$



Gold Questions

Carry out the following calculations ...

$$4^2 + 2^2$$

$$4 \int (70-6) \div 8$$
 $4 \int (37-5) \div 2^2$

$$23 + (4 + 5)^2$$
 $49 - (6 + 2)^2$

Bronze Answers

1.	18	2.	1
3.	7	4.	48
5.	14	6.	2
7.	12	8.	11
9.	16	10.	0

Silver Answers

1.	88	2.	24
3.	12	4.	63
5.	2	6.	3
7.	8	8.	2
9.	16	10.	8

Gold Answers

1.	26	2.	20
3.	30	4.	4
5.	16	6.	6
7 .	8	8.	8
9.	104	10.	23