Name: ..... Date: .....

When sums have got different operations in them, we have to solve them in the correct order. We use a method called B O D M A S.

B = Brackets
O = Others
D = Divide
M = Multiply
A = Add
S = Subtract

Do the sums in this order

This means that addition (+) comes before subtraction (–), and division (÷) and multiplication (×) come before addition (+) or subtraction (–).

e.g. 1 – 2 + 3 = 1 + 3 – 2 = 4 – 2 = **2**

e.g. 4 + 2 – 5 + 3 = 4 + 2 + 3 – 5 = 9 – 5 = **4**

Task one: complete the following sums by calculating the addition (+) sums first.

1. 4 + 1 – 3 =	**2.** 6 + 3 – 5 =	**3.** 7 + 2 – 6 =
4. 4 – 1 + 3 =	**5.** 5 – 3 + 6 =	**6.** 4 – 5 + 3 =
7. 5 – 7 + 4 =	**8.** 2 – 6 + 5 =	**9.** 1 – 4 + 5 =
10. 2 + 3 – 4 + 5 =	**11.** 5 + 4 – 3 + 2 =	**12.** 1 + 3 – 2 + 4 =
13. 2 – 3 + 5 – 4 =	**14.** 3 – 6 + 8 – 4 =	**15.** 7 – 2 + 4 – 5 =

Remember multiplication (×) and division (÷) before addition (+) or subtraction (-).

e.g **3 × 4** + 5 = 12 + 5 = **17** Work out 3 × 4 first as × comes before +.

e.g 3 + **4 × 5** = 3 + 20 = **23** Work out 4 × 5 first as × comes before +.

e.g 8 – **6 ÷ 2** = 8 – 3 = **5** Work out 6 ÷ 2 first as ÷ comes before –.

Task two: complete the following sums by calculating the multiplication (x) and division (÷) sums first.

1. 2 + **3** × **4** =	**2.** 3 + **2** × **4** =	**3.** 9 – **3** × **2** =
4. **5** × **2** – 3 =	**5.** 3 + **6** ÷ **2** =	**6.** 7 – **2** × **3** =
7. 7 × 2 – 9 =	**8.** 4 – 9 ÷ 3 =	**9.** 4 + 8 ÷ 2 =
10. 6 + 9 × 4 =	**11.** 3 +12 ÷ 2 =	**12.** 7 – 20 ÷ 4 =
13. 5 × 7 – 4 =	**14.** 24 ÷ 3 – 5 =	**15.** 9 – 30 ÷ 5 =

Times table support grid

4	8	12	16	20	24	28	32	36	40
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90

When sums contain brackets we calculate the sum inside the brackets first.

e.g $(5 + 4) \times 2 = \mathbf{9} \times 2 = \mathbf{18}$

e.g $24 \div (1 + 3) = 24 \div \mathbf{4} = \mathbf{6}$

Task three: complete the following sums by calculating the sums in brackets first.

1. $(4 + 1) \times 3 =$	**2.** $(6 + 3) \times 5 =$	**3.** $(7 + 2) \times 6 =$
4. $4 \times (1 + 3) =$	**5.** $5 \times (3 + 6) =$	**6.** $4 \times (5 + 3) =$
7. $(5 + 7) \div 4 =$	**8.** $(2 + 6) \div 4 =$	**9.** $(7 + 5) \div 3 =$
10. $15 \div (4 + 1) =$	**11.** $18 \div (4 + 2) =$	**12.** $24 \div (3 + 5) =$
13. $(2 + 3) \times (5 - 3) =$	**14.** $(4 + 2) \times (4 - 2) =$	**15.** $(6 - 4) \times (4 + 3) =$

Times table support grid

4	8	12	16	20	24	28	32	36	40
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90

The following sums have a range of different operations and signs in them. Remember to use B O D M A S to help.

B = Brackets
O = Others
D = Divide
M = Multiply
A = Add
S = Subtract

Do the sums in this order

e.g $3 + 4 \times 5 - 7$ Work out **4 × 5** first as multiplication (×) comes before additon (+).

$3 + 20 - 7$ Then calculate the addition (+) next.

$23 - 7 = \mathbf{16}$ Finally, complete the subtraction (–) last.

e.g $(5 + 4) \times 2 - 12 \div 4$ Work out the sum in brackets first.

$9 \times 2 - 12 \div 4$ We can calculate the multiplication (×) and division (÷) sums next.

$18 - 3 = 15$ Finally, we complete the subtraction (–).

Task four: use all of your BODMAS skills to solve the following sums.

1. $12 - 2 \times 3 =$	**2.** $4 + 15 \div 5 =$	**3.** $(7 + 2) \div 3 =$
4. $4 \times (1 + 3) + 10 =$	**5.** $5 \times 3 + 16 \div 4 =$	**6.** $(1 + 4) \times (5 - 3) =$
7. $(5 + 7) \div (4 + 2) =$	**8.** $(2 + 6 \times 3) \div 4 =$	**9.** $(7 - 5) \times 19 - 10 =$
10. $(7 + 8) \div (4 + 1) =$	**11.** $18 \div (7 - 4) \times 2 =$	**12.** $(1 + 2 \times 3 + 4) \times 2 =$

Introducing BODMAS – answers:

Task one:

1. 2	2. 4	3. 3	4. 6	5. 8
6. 2	7. 2	8. 1	9. 2	10. 6
11. 8	12. 6	13. 0	14. 1	15. 4

Task two:

1. 14	2. 11	3. 3	4. 7	5. 6
6. 1	7. 5	8. 1	9. 8	10. 42
11. 9	12. 2	13. 31	14. 3	15. 3

Task three:

1. 15	2. 45	3. 54	4. 16	5. 45
6. 32	7. 3	8. 2	9. 4	10. 3
11. 3	12. 3	13. 10	14. 12	15. 14

Task four:

1. 6	2. 7	3. 3	4. 26
5. 19	6. 10	7. 2	8. 5
9. 28	10. 3	11. 12	12. 22