BODMAS Calculation

I can correctly use the order of operations to carry out calculations.

Use the order of operations to complete the following calculations. Once completed, switch your activity sheet with another member of your group and check their work.
Did your partner get their calculations correct?

a) $(483 \times 54) \div 100 =$ _____

b) $154 \times 112 \div 7 =$ _____

c) $14 + 12^2 - 81 =$ _____

d) $583 - (43 \times 4) =$ _____

e) $4 \times 67 \div 5 =$ _____

f) $15^2 \times 3 + 325 =$ _____

g) $583 - 54 \times 6 =$ _____

h) $52.7 + 538 \div 10 =$ _____

i) $235 \times 45 \div 5 =$ _____

j) $684.67 + 385.75 \times 3 =$ _____

BODMAS Calculation **Answers**

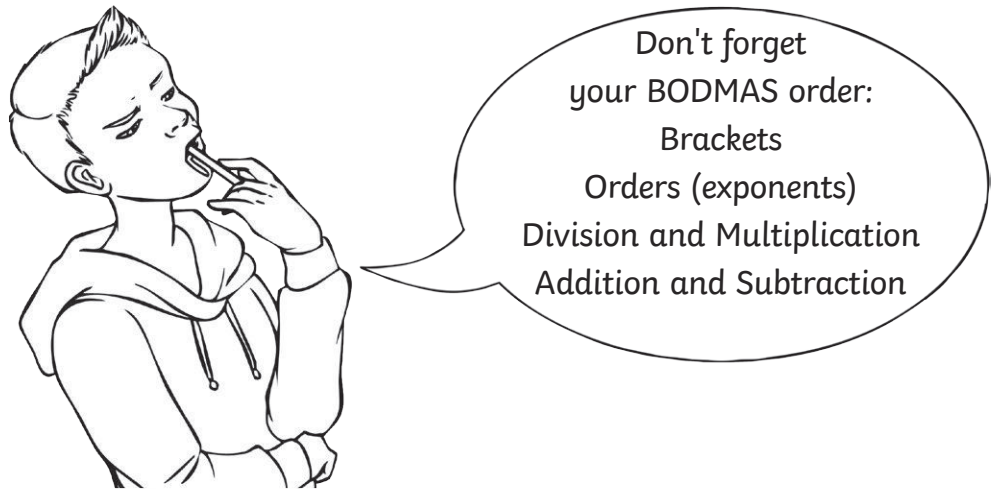
Question	Answer
	Use the order of operations to complete the following calculations.
a	(483 × 54) ÷ 100 = **260.82**
b	154 × 112 ÷ 7 = **2464**
c	$14 + 12^2 - 81$ = **77**
d	583 - (43 × 4) = **411**
e	4 × 67 ÷ 5 = **53.6**
f	$15^2 \times 3 + 325$ = **1000**
g	583 - 54 × 6 = **259**
h	52.7 + 538 ÷ 10 = **106.5**
i	235 × 45 ÷ 5 = **2115**
j	684.67 + 385.75 × 3 = **1841.92**

BODMAS Calculation Cards

I can correctly use the order of operations to carry out calculations.

Cut, sort and glue the calculation cards into true or false statements.

True	False



14 × 5 - 60 = 10	54 + 27 × 3 = 243	129 ÷ 3 × 2 = 86
120 - 56 + 44 = 109	1000 - 571 + 429 = 0	25 + 108 ÷ 9 = 37
183 - 45 ÷ 5 = 27.6	50 - 49 ÷ 7 = 43	5 + 54 ÷ 6 = 45
45 ÷ 9 + 150 = 159		

BODMAS Calculation Cards **Answers**

Question	Answer
	Cut, sort and glue the calculation cards into true or false statements.

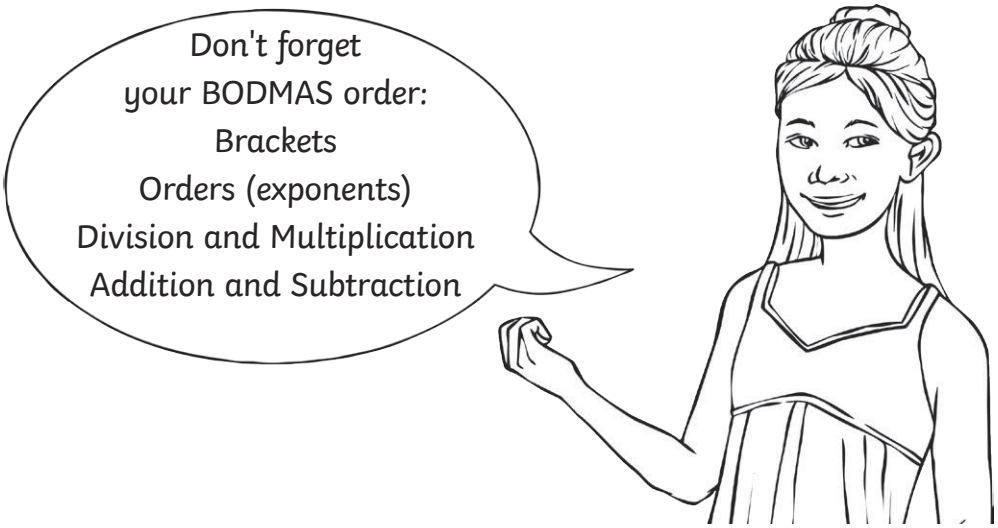
True	False
14 × 5 - 60 = 10	54 + 27 × 3 = 243
25 + 108 ÷ 9 = 37	183 - 45 ÷ 5 = 27.6
129 ÷ 3 × 2 = 86	120 - 56 + 44 = 109
50 - 49 ÷ 7 = 43	5 + 54 ÷ 6 = 45
1000 - 571 + 429 = 0	45 ÷ 9 + 150 = 159

BODMAS Matching

I can correctly use the order of operations to carry out calculations.

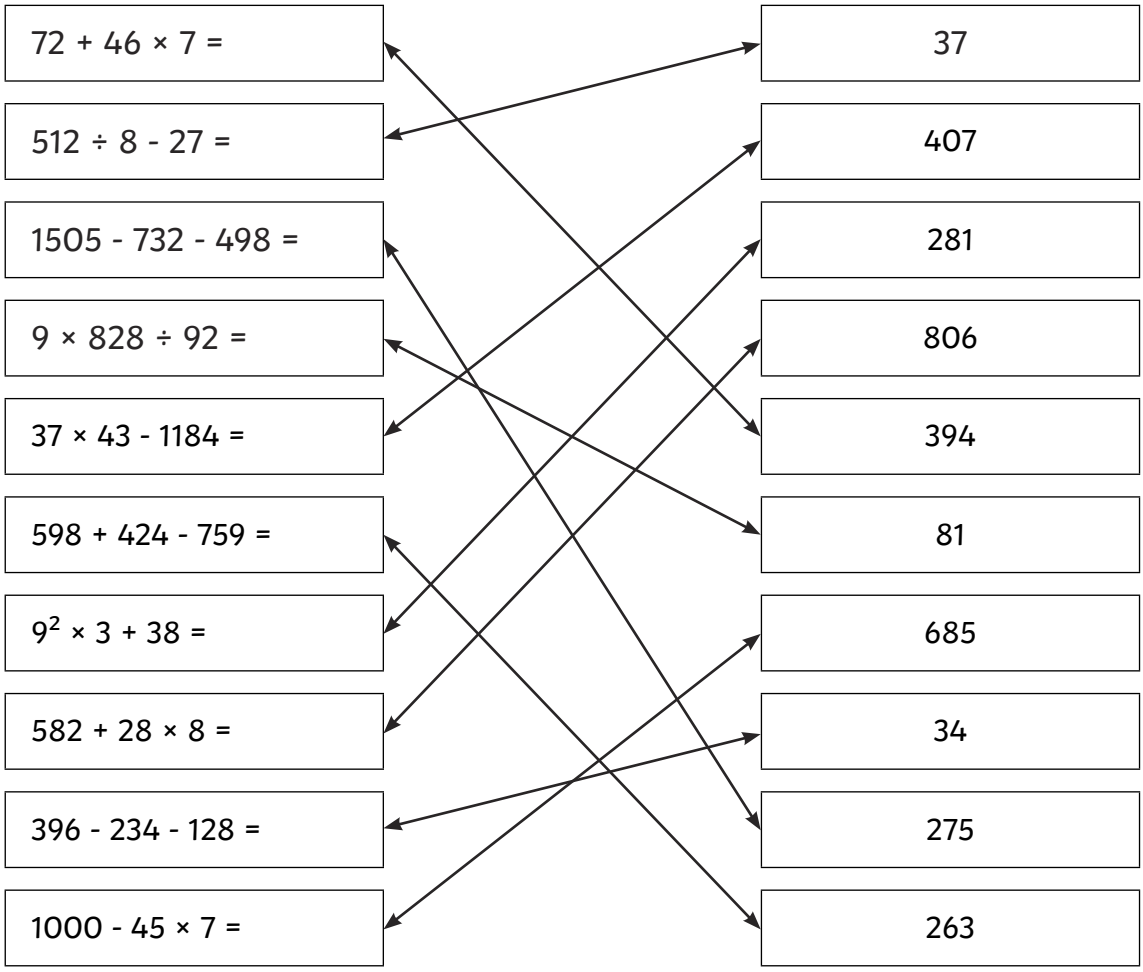
Match the calculation to the correct answer using your knowledge of BODMAS.
One calculation has been done for you.

72 + 46 × 7 =	37
512 ÷ 8 - 27 =	407
1505 - 732 - 498 =	281
9 × 828 ÷ 92 =	806
37 × 43 - 1184 =	394
598 + 424 - 759 =	81
9^2 × 3 + 38 =	685
582 + 28 × 8 =	34
396 - 234 - 128 =	275
1000 - 45 × 7 =	263



BODMAS Matching **Answers**

Question	Answer
	Match the calculation to the correct answer using your knowledge of BODMAS.



1) $(8 \times 6) + 12 = 60$

$81 \div (6 - 3) = 27$

$(19 + 14) \times 6 = 198$

$36 - (14 + 9) = 13$

2) $13 \times (5 - 2) = (3 \times 15) - 6$

$181 - (27 \div 3) = 17 \times (29 - 19) + 2$

1) Adam has moved from left to right in this calculation, ignoring the order of operations. The correct answer is 28.

Adam has taken 4 away from 6 then added the answer to $24 \div 3$. The correct answer is 44.

2) a) $30 \div (6 + 4)$ is the correct answer.

b) Each group will consist of 10 children (6 boys + 4 girls). We need to divide the total number of children in the class by the number of children in a whole group. This means there will be 3 groups of 10.

1) a) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 30

Accept: $2 \times (5 + 10) = 30$, $2 \times (6 + 9) = 30$ and $2 \times (7 + 8) = 30$

b) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 42

Accept: $3 \times (5 + 9) = 42$ and $3 \times (6 + 8) = 42$

c) Number from Set 1 × (Number from Set 2 + Number from Set 3) = 56

Accept: $4 \times (6 + 8) = 56$ and $4 \times (5 + 9) = 56$

2) Number from Set 1 × (Number from Set 2 + Number from Set 3) = Number between 40 and 60

Multiple answers possible, for example:

$3 \times (6 + 9) = 45$

$4 \times (5 + 8) = 52$

$4 \times (6 + 9) = 60$

1) Add one pair of missing brackets to each of these calculations to make them correct:

$8 \times 6 + 12 = 60$

$81 \div 6 - 3 = 27$

$19 + 14 \times 6 = 198$

$36 - 14 + 9 = 13$

2) Add two pairs of missing brackets to each of these calculations to make them correct:

$13 \times 5 - 2 = 3 \times 15 - 6$

$181 - 27 \div 3 = 17 \times 29 - 19 + 2$

Brackets	B
Orders	O
Division	D
Multiplication	M
Addition	A
Subtraction	S

B	Brackets
I	Indices
D	Division
M	Multiplication
A	Addition
S	Subtraction

1) Adam has carried out the following calculations.

Look carefully at his calculations and describe the errors he has made with the order of operations.

$20 - 4 \times 2 + 16 = 48$

$6 \times (24 \div 3) - 4 = 10$

2) **a)** Yan is solving this word problem. Which of these calculations correctly shows the problem? Explain your reasoning.

A class of 30 children are going on a school trip. The teacher is organising the children into small groups. She decides that each group will be made up of 6 boys and 4 girls.

$30 \div 6 + 4$

$30 \div (6 + 4)$

b) How many groups of children will there be?

Set 1	Set 2	Set 3
2, 3, 4	5, 6, 7	8, 9, 10

1) Use a number from each of the sets above to complete the number calculations below:

a) **Number from Set 1** ☐ × (**Number from Set 2** ☐ + **Number from Set 3** ☐) = 30

b) **Number from Set 1** ☐ × (**Number from Set 2** ☐ + **Number from Set 3** ☐) = 42

c) **Number from Set 1** ☐ × (**Number from Set 2** ☐ + **Number from Set 3** ☐) = 56

2) Use a number from each set to find out possible calculations that have an answer between 40 and 60.

Number from Set 1 ☐ × (**Number from Set 2** ☐ + **Number from Set 3** ☐) = **Number between 40 and 60** ☐

1) Add one pair of missing brackets to each of these calculations to make them correct:

$8 \times 6 + 12 = 60$

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$19 + 14 \times 6 = 198$

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Brackets	B	B	Brackets
Orders	O	I	Indices
Division	D	D	Division
Multiplication	M	M	Multiplication
Addition	A	A	Addition
Subtraction	S	S	Subtraction

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Orders	O	I	Indices
Division	D	D	Division
Multiplication	M	M	Multiplication
Addition	A	A	Addition
Subtraction	S	S	Subtraction

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$30 \div 6 + 4$

$30 \div (6 + 4)$

b) How many groups of children will there be?

1) Use a number from each of the sets to complete the number calculations:

Set 1	Set 2	Set 3
2, 3, 4	5, 6, 7	8, 9, 10

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b) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 42

c) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 56

2) Use a number from each set to find out possible calculations that have an answer between 40 and 60.

Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = Number between 40 and 60 ☐

1) Use a number from each of the sets to complete the number calculations:

Set 1	Set 2	Set 3
2, 3, 4	5, 6, 7	8, 9, 10

a) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 30

b) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 42

c) Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = 56

2) Use a number from each set to find out possible calculations that have an answer between 40 and 60.

Number from Set 1 ☐ × (Number from Set 2 ☐ + Number from Set 3 ☐) = Number between 40 and 60 ☐

Extra Challenge

I can correctly use the order of operations to carry out calculations.

Use the order of operations to match each calculation to the correct answer.

$18^2 \times (48.45 + 48.4) =$	1862
$474 + 30\,736 \div 68 =$	326
$30\,970 \div (54 + 41) =$	926
$19 \times (7^2 + 49) =$	31 379.4

Think of two possible calculations using the order of operations that would give the answer shown.

1) 485

a) _____

b) _____

2) 297

a) _____

b) _____

3) 1038

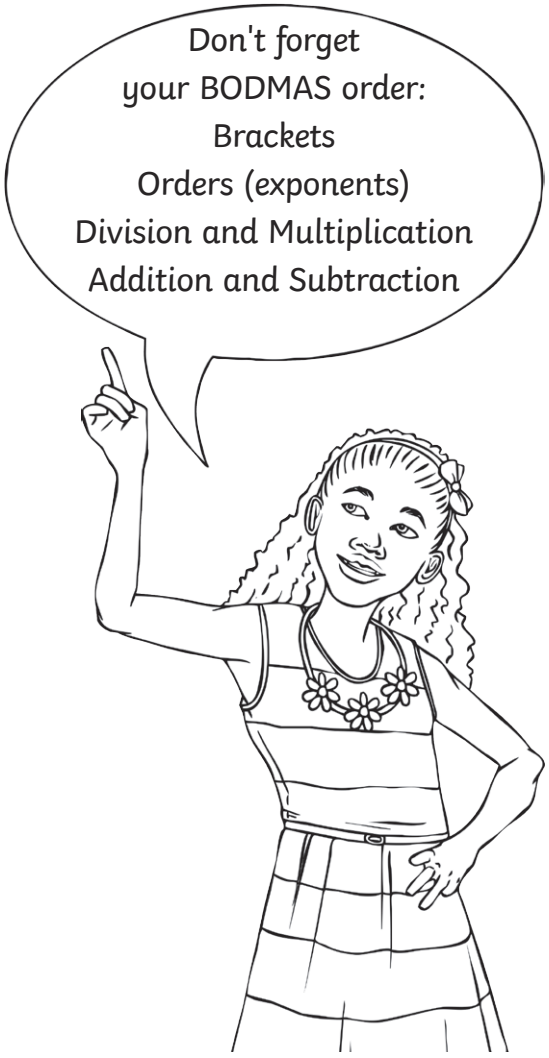
a) _____

b) _____

4) 25.5

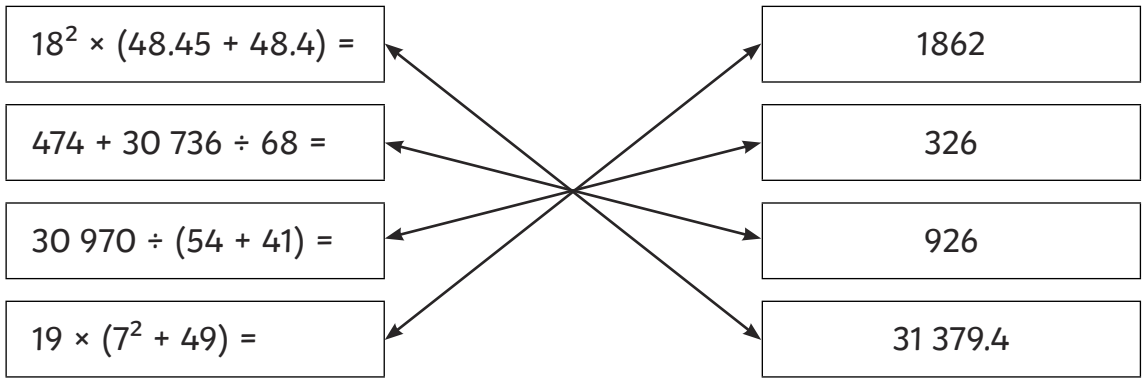
a) _____

b) _____



Extra Challenge **Answers**

Question	Answer
	Use the order of operations to match each calculation to the correct answer.



	Think of two possible calculations using the order of operations that would give the answer shown.
	Multiple answers possible.

Multiplication Mayhem

Fill in the missing multiples. Included in the multiplication square are some incorrect numbers; colour these in to show the errors.

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5		7	8	9	10	11	13
2	2	4	6	8	10	13	14	16	18		21	24
3	3	6	10	12	15	18	20			30	34	36
4	4	8	12		20	23	28	32		40	44	48
5	5	10	15	20	25	30	35	40	46	50		60
6	6	12		23			42	47	54	60	67	72
7	7	14	20	28	35		49	56		70	77	
8	9	16	24				56	65		81	88	96
9	9	18	27	35	45	54		72	82	90	99	108
10	10	20	30		50	60	70	80	90	101	110	120
11	11	21	33	44	55	66	76	88	99		122	
12	12	24		49		74		96		120	132	144

Multiplication Mayhem

Fill in the missing multiples. Included in the multiplication square are some incorrect numbers; colour these in to show the errors.

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5		7	8	9	10	11	13
2	2	4	6	8	10	13	14	16	18		21	24
3	3	6	10	12	15	18	20			30	34	36
4	4	8	12		20	23	28	32		40	44	48
5	5	10	15	20	25	30	35	40	46	50		60
6	6	12		23			42	47	54	60	67	72
7	7	14	20	28	35		49	56		70	77	
8	9	16	24				56	65		81	88	96
9	9	18	27	35	45	54		72	82	90	99	108
10	10	20	30		50	60	70	80	90	101	110	120
11	11	21	33	44	55	66	76	88	99		122	
12	12	24		49		74		96		120	132	144

Multiplication Mayhem **Answers**

×	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	13
2	2	4	6	8	10	13	14	16	18	20	21	24
3	3	6	10	12	15	18	20	24	27	30	34	36
4	4	8	12	16	20	23	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	46	50	55	60
6	6	12	18	23	30	36	42	47	54	60	67	72
7	7	14	20	28	35	42	49	56	63	70	77	84
8	9	16	24	32	40	48	56	65	72	81	88	96
9	9	18	27	35	45	54	63	72	82	90	99	108
10	10	20	30	40	50	60	70	80	90	101	110	120
11	11	21	33	44	55	66	76	88	99	110	122	132
12	12	24	36	49	60	74	84	96	108	120	132	144