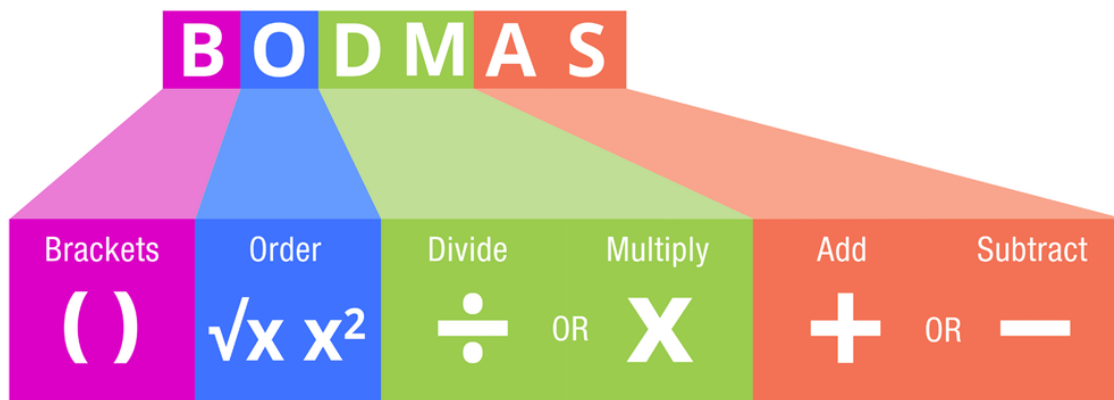




Year 5 Worksheet 7 - Order of operations



Question 1: Use BODMAS to solve the following operations (addition, subtraction, multiplication, division) with parentheses.

1	Evaluate $7 \times (4 + 3) - 10 \div 2$.
2	Simplify $(15 - 3) \times 2 + 8 \div 4$.
3	Calculate $10 + (6 \div 2) \times (8 - 4)$.
4	Solve $24 \div (8 + 2) \times 3$.



5	Evaluate $(16 + 5) - (9 \div 3)$.
6	Simplify $18 - (4 \times 2) + (10 \div 5)$.
7	Calculate $25 \div 5 + (7 - 2) \times 3$.
8	Solve $(12 + 6) \div (3 \times 2)$.
9	Evaluate $14 - (6 \div 3) \times (5 + 2)$.
10	Simplify $(20 \div 4) + 2 \times (7 - 4)$.
11	Calculate $(9 + 3) \times 2 - (10 \div 2)$.
12	Solve $28 \div (4 + 1) - 3 \times 2$.



Question 2: Use BODMAS to solve the following operations including simple exponents.

Example:

- $4^2 = 4 \times 4 = 16$.
- $4^3 = 4 \times 4 \times 4 = 16 \times 4 = 64$.

1	Evaluate $5 + 3 \times 2^2$.
2	Simplify $(4 + 6) \times 2^3$.
3	Calculate $9 \div 3 + 2^2$.
4	Solve $2^3 \times (6 - 4)$.
5	Evaluate $3^2 + 4 \times 2$.
6	Simplify $(5 + 2)^2 - 3$.
7	Calculate $10 - 2^2 + 5$.



8	Solve $3^2 \div (2 + 1)$.
9	Evaluate $6 + 2^2 \times 3$.
10	Simplify $(4 - 1)^2 + 5$.
11	Calculate $2^3 - (7 - 4)$.
12	Solve $3 \times 2^2 + 1$.



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Answer Key

Question 1: Use BODMAS to solve the following operations (addition, subtraction, multiplication, division) with parentheses.

1	Evaluate $7 \times (4 + 3) - 10 \div 2$. Answer: $49 - 5 = 44$
2	Simplify $(15 - 3) \times 2 + 8 \div 4$. Answer: 24
3	Calculate $10 + (6 \div 2) \times (8 - 4)$. Answer: 19
4	Solve $24 \div (8 + 2) \times 3$. Answer: 7.2
5	Evaluate $(16 + 5) - (9 \div 3)$. Answer: 18
6	Simplify $18 - (4 \times 2) + (10 \div 5)$. Answer: 10
7	Calculate $25 \div 5 + (7 - 2) \times 3$. Answer: 24
8	Solve $(12 + 6) \div (3 \times 2)$. Answer: 3
9	Evaluate $14 - (6 \div 3) \times (5 + 2)$. Answer: 4
10	Simplify $(20 \div 4) + 2 \times (7 - 4)$. Answer: 10
11	Calculate $(9 + 3) \times 2 - (10 \div 2)$. Answer: 20
12	Solve $28 \div (4 + 1) - 3 \times 2$. Answer: 2



Question 2: Use BODMAS to solve the following operations including simple exponents.

1	Evaluate $5 + 3 \times 2^2$. Answer: 17
2	Simplify $(4 + 6) \times 2^3$. Answer: 80
3	Calculate $9 \div 3 + 2^2$. Answer: 7
4	Solve $2^3 \times (6 - 4)$. Answer: 16
5	Evaluate $3^2 + 4 \times 2$. Answer: 14
6	Simplify $(5 + 2)^2 - 3$. Answer: 28
7	Calculate $10 - 2^2 + 5$. Answer: 13
8	Solve $3^2 \div (2 + 1)$. Answer: 3
9	Evaluate $6 + 2^2 \times 3$. Answer: 18
10	Simplify $(4 - 1)^2 + 5$. Answer: 12
11	Calculate $2^3 - (7 - 4)$. Answer: 5
12	Solve $3 \times 2^2 + 1$. Answer: 13