

BODMAS

I can solve expressions using the order of operations.

Here are some multi-part expressions. Complete the underlined part of the expression first then use the answer to that to complete the expression.

Here is an example: $3 \times (2 + 6)$
 $3 \times 8 = 24$

1. $7 \times (8 - 3)$

6. $21 \div (4 + 3)$

11. $9 \times (3 + 3)$

2. $7 + 9 \times 2$

7. $10 - 9 \div 3$

12. $2^3 - (3 + 1)$

3. $10 \div (6 - 4)$

8. $7 + 6 \times 4$

13. $(10 + 5) \div 5$

4. $12 \div (7 - 4)$

9. $(12 + 20) \div 4$

14. $12 \div (7 - 4)$

5. $(8 + 9) + 6^2$

10. $(13 - 6) \times 5$

15. $(11 - 3) \times 7$

Decide which part of each expression to calculate first, underline and complete as above.

1. $(12 - 7) \times 8$

2. $9 + 2 \times 7$

3. $18 \div (8 - 2)$

BODMAS

I can solve expressions using the order of operations.

1. $(12 + 8) \div 4 =$ 6. $(21 - 9) \times 2 =$ 11. $(8 + 13) \div 7 =$

2. $(5^2 + 10) \div 5 =$ 7. $8 \times 3 + 6 =$ 12. $25 - 11 \times 2 =$

3. $(8 + 9) + 6^2 =$ 8. $3 \times (15 - 9) =$ 13. $(7^2 + 11) \div 5 =$

4. $4 \times 6 - 14 =$ 9. $6^3 - (35 + 12) =$ 14. $9 \div (10 - 7) =$

5. $18 \div (4 + 5) =$ 10. $(14 + 21) \div 5 =$ 15. $26 - 3 \times 7 =$

Complete these calculations by filling in the missing number.

1. $4 \times \square - 25 = 23$

4. $(5 + 9) \div \square = 2$

7. $\square \div (7 - 2) = 3$

2. $(26 - 10) \div \square = 4$

5. $9 \times (12 - \square) = 63$

8. $8^2 + (66 - \square) = 86$

3. $60 = 5 \times (3 + \square)$

6. $45 = (5 + \square) \times 5$

9. $6 = \square \div (11 - 4)$

BODMAS

I can solve expressions using the order of operations.

Calculate:

1. $(3 + 6) \times (8 - 5) =$

6. $8 \div (7 - 5) \times 6 =$

2. $7 + 8 \times 9 - 4 =$

7. $9 \times 3 + 18 \div 9 =$

3. $8 \times (6 + 3) + 5 =$

8. $(124 \div 2) \times 2^2 =$

4. $(19 - 7) + 8^2 + 9 =$

9. $23 - 3 \times (5 + 8) =$

5. $9 \times (5 + 6) + 4 =$

10. $8 + 7 \times (12 - 5) =$

Put brackets in the following to make the answers correct.

1. $6 \times 7 - 4 \times 8 = 10$

6. $8 \times 7 - 4 \div 6 = 4$

2. $8 \times 9 - 5 - 6 = 26$

7. $9 + 23 - 5 \times 5 = 7$

3. $24 - 17 \times 8 - 16 = 40$

8. $5 + 11 \div 7 - 3 = 4$

4. $14 + 6 \times 4 - 32 = 6$

9. $7 + 6 \times 12 - 7 = 37$

5. $9 \times 7 - 6 \times 3 = 27$

10. $15 + 9 \div 6 - 4 = 0$

Use all the following numbers to create an expression using order of operations: 3, 4, 6, 12

Using your own number cards, challenge a partner to find expressions with certain answers.

BODMAS Answers

Lower Ability

- $7 \times 5 = 35$
- $7 + 18 = 25$
- $10 \div 2 = 5$
- $12 - 3 = 4$
- $(8 + 9) + 6^2 = 53$
- $21 \div 7 = 3$
- $10 - 3 = 7$
- $7 + 24 = 31$
- $32 \div 4 = 8$
- $7 \times 5 = 35$
- $9 \times 6 = 54$
- $2^3 - (3 + 1) = 4$
- $15 \div 5 = 3$
- $12 \div 3 = 4$
- $8 \times 7 = 56$

Middle Ability

- $(12 + 8) \div 4 = 5$
- $(5^2 + 10) \div 5 = 7$
- $(8 + 9) + 6^2 = 53$
- $4 \times 6 - 14 = 10$
- $18 \div (4 + 5) = 2$
- $(21 - 9) \times 2 = 24$
- $8 \times 3 + 6 = 30$
- $3 \times (15 - 9) = 18$
- $63 - (35 + 12) = 16$
- $(14 + 21) \div 5 = 7$
- $(8 + 13) \div 7 = 3$
- $25 - 11 \times 2 = 3$
- $(7^2 + 11) \div 5 = 12$
- $9 \div (10 - 7) = 3$
- $26 - 3 \times 7 = 5$
- $4 \times 12 - 25 = 23$
- $(26 - 10) \div 2^2 = 4$
- $60 = 5 \times (3 + 9)$
- $(5 + 9) \div 7 = 2$
- $9 \times (12 - 5) = 63$
- $45 = (5 + 4) \times 5$
- $15 \div (7 - 2) = 3$
- $8^2 + (66 - 44) = 86$
- $6 = 42 \div (11 - 4)$

Higher Ability

- $(3 + 6) \times (8 - 5) = 27$
- $7 + 8 \times 9 - 4 = 75$
- $8 \times (6 + 3) + 5 = 77$
- $(19 - 7) + 8^2 + 9 = 85$
- $9 \times (5 + 6) + 4 = 103$
- $8 \div (7 - 5) \times 6 = 24$
- $9 \times 3 + 18 \div 9 = 29$
- $(124 \div 2) \times 2^2 = 248$
- $23 - 3 \times (5 + 8) = -16$
- $8 + 7 \times (12 - 5) = 57$
- $(6 \times 7) - (4 \times 8) = 10$
- $8 \times (9 - 5) - 6 = 26$
- $(24 - 17) \times 8 - 16 = 40$
- $14 + 6 \times 4 - 32 = 6$ (no brackets)
- $9 \times (7 - 6) \times 3 = 27$
- $8 \times (7 - 4) \div 6 = 4$
- $9 + 23 - 5 \times 5 = 7$ (no brackets)
- $(5 + 11) \div (7 - 3) = 4$
- $7 + 6 \times (12 - 7) = 37$
- $(15 + 9) \div 6 - 4 = 0$

Possible answers:

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|-------------------------------------|
| $12 - 3 \times 4 + 6 = 6$ |
| $6 + 4 + 3 - 12 = 1$ |
| $12 \div 6 \times (4 - 3) = 2$ |
| $12 \div 6 + 4 - 3 = 3$ |
| $6 \times 4 \div 12 + 3 = 5$ |
| $(4 \times 3) - (12 \div 6) = 10$ |
| $(12 \times 3) - (6 \times 4) = 12$ |
| $(4 + 6) \times 3 - 12 = 18$ |
| $(4 + 6) \times 12 \div 3 = 40$ |