

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: $3 \times (\underline{2 + 6})$
 $3 \times 8 = 24$

1. $7 \times (\underline{8 - 3})$

6. $21 \div (\underline{4 + 3})$

11. $9 \times (\underline{3 + 3})$

2. $7 + \underline{9 \times 2}$

7. $10 - \underline{9 \div 3}$

12. $2^3 - (\underline{3 + 1})$

3. $10 \div (\underline{6 - 4})$

8. $7 + \underline{6 \times 4}$

13. $(\underline{10 + 5}) \div 5$

4. $12 \div (\underline{7 - 4})$

9. $(\underline{12 + 20}) \div 4$

14. $12 \div (\underline{7 - 4})$

5. $(\underline{8 + 9}) + 6^2$

10. $(\underline{13 - 6}) \times 5$

15. $(\underline{11 - 3}) \times 7$

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

1. $(\underline{12 - 7}) \times 8$

2. $9 + \underline{2 \times 7}$

3. $18 \div (\underline{8 - 2})$

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I can solve expressions using the order of operations.

- | | | |
|---|---|--|
| 1. $(12 + 8) \div 4 =$ <input type="text"/> | 6. $(21 - 9) \times 2 =$ <input type="text"/> | 11. $(8 + 13) \div 7 =$ <input type="text"/> |
| 2. $(5^2 + 10) \div 5 =$ <input type="text"/> | 7. $8 \times 3 + 6 =$ <input type="text"/> | 12. $25 - 11 \times 2 =$ <input type="text"/> |
| 3. $(8 + 9) + 6^2 =$ <input type="text"/> | 8. $3 \times (15 - 9) =$ <input type="text"/> | 13. $(7^2 + 11) \div 5 =$ <input type="text"/> |
| 4. $4 \times 6 - 14 =$ <input type="text"/> | 9. $6^3 - (35 + 12) =$ <input type="text"/> | 14. $9 \div (10 - 7) =$ <input type="text"/> |
| 5. $18 \div (4 + 5) =$ <input type="text"/> | 10. $(14 + 21) \div 5 =$ <input type="text"/> | 15. $26 - 3 \times 7 =$ <input type="text"/> |

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

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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

1. $7 \times 5 = 35$
2. $7 + 18 = 25$
3. $10 \div 2 = 5$
4. $12 - 3 = 4$
5. $(8 + 9) + 6^2 = 53$
6. $21 \div 7 = 3$
7. $10 - 3 = 7$
8. $7 + 24 = 31$
9. $32 \div 4 = 8$
10. $7 \times 5 = 35$
11. $9 \times 6 = 54$
12. $2^3 - (3 + 1) = 4$
13. $15 \div 5 = 3$
14. $12 \div 3 = 4$
15. $8 \times 7 = 56$

1. $(12 - 7) \times 8 = 40$
2. $9 + 2 \times 7 = 23$
3. $18 \div (8 - 2) = 3$

Middle Ability

1. $(12 + 8) \div 4 = 5$
2. $(5^2 + 10) \div 5 = 7$
3. $(8 + 9) + 6^2 = 53$
4. $4 \times 6 - 14 = 10$
5. $18 \div (4 + 5) = 2$
6. $(21 - 9) \times 2 = 24$
7. $8 \times 3 + 6 = 30$
8. $3 \times (15 - 9) = 18$
9. $63 - (35 + 12) = 16$
10. $(14 + 21) \div 5 = 7$
11. $(8 + 13) \div 7 = 3$
12. $25 - 11 \times 2 = 3$
13. $(7^2 + 11) \div 5 = 12$
14. $9 \div (10 - 7) = 3$
15. $26 - 3 \times 7 = 5$

1. $4 \times 12 - 25 = 23$
2. $(26 - 10) \div 2^2 = 4$
3. $60 = 5 \times (3 + 9)$
4. $(5 + 9) \div 7 = 2$
5. $9 \times (12 - 5) = 63$
6. $45 = (5 + 4) \times 5$
7. $15 \div (7 - 2) = 3$
8. $8^2 + (66 - 44) = 86$
9. $6 = 42 \div (11 - 4)$

Higher Ability

1. $(3 + 6) \times (8 - 5) = 27$
2. $7 + 8 \times 9 - 4 = 75$
3. $8 \times (6 + 3) + 5 = 77$
4. $(19 - 7) + 8^2 + 9 = 85$
5. $9 \times (5 + 6) + 4 = 103$
6. $8 \div (7 - 5) \times 6 = 24$
7. $9 \times 3 + 18 \div 9 = 29$
8. $(124 \div 2) \times 2^2 = 248$
9. $23 - 3 \times (5 + 8) = -16$
10. $8 + 7 \times (12 - 5) = 57$
1. $(6 \times 7) - (4 \times 8) = 10$
2. $8 \times (9 - 5) - 6 = 26$
3. $(24 - 17) \times 8 - 16 = 40$
4. $14 + 6 \times 4 - 32 = 6$ (no brackets)
5. $9 \times (7 - 6) \times 3 = 27$
6. $8 \times (7 - 4) \div 6 = 4$
7. $9 + 23 - 5 \times 5 = 7$ (no brackets)
8. $(5 + 11) \div (7 - 3) = 4$
9. $7 + 6 \times (12 - 7) = 37$
10. $(15 + 9) \div 6 - 4 = 0$

Possible answers:

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