

Bodmas

В	Brackets	10 × (4 + 2) = 10 × 6 = 60
0	Order	$5 + 2^2 = 5 + 4 = 9$
D	Division	10 + 6 ÷ 2 = 10 + 3 = 13
M	Multiplication	10 - 4 × 2 = 10 - 8 = 2
Α	Addition	10 × 4 + 7 = 40 + 7 = 47
S	Subtraction	10 ÷ 2 - 3 = 5 - 3 = 2



Bidmas

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Brackets

Calculate anything in brackets first.

$$10 \times (4+2) = 10 \times 6 = 60$$
 not $10 \times (4+2) = 40 + 2 = 42$

Compare these calculations:

$$10 \div (2 + 3) = 10 \div 5 = 2$$

$$(6 + 2) \times 8 = 8 \times 8 = 64$$

$$10 \div 2 + 3 = 5 + 3 = 8$$

$$6 + 2 \times 8 = 6 + 16 = 22$$

Order / Indices

This relates to powers or roots of numbers (squared, cubed etc.). Calculate powers or roots before multiplication/division/addition/subtraction.

$$5 + 2^2 = 5 + 4 = 9$$
 not $5 + 2^2 = 7^2 = 49$

Compare these calculations:

$$10 - 2^3 =$$

$$10 - 2^3 = 10 - 8 = 2$$

$$(10-2)^3 = 8^3 = 512$$

$$8^3 = 512$$

$$12 + \sqrt{4} = 12 + 2 = 14$$

$$\sqrt{(12 + 4)} = \sqrt{16} = 4$$

$$\sqrt{16} = 4$$



Division and Multiplication

Division and multiplication come before addition and subtraction.

$$10 + 6 \div 2 = 10 + 3 = 13$$
 not $10 + 6 \div 2 = 16 \div 2 = 8$

$$10 - 4 \times 2 = 10 - 8 = 2$$
 not $10 - 4 \times 2 = 6 \times 2 = 12$

Compare these calculations:

$$12 - 2 \times 5 = 12 - 10 = 2$$

$$12 - 2 \times 5 = 10 \times 5 = 50$$

$$8 + 10 \div 2 = 18 \div 2 = 9$$



Use the following numbers to make the answers below remembering the order of operations:



$$(5 + 3) \div 2$$
 or $(5 - 3) \times 2$

$$(5 + 2) \times 3$$

 $5 + 3 \times 2$

$$5 - 2 + 3$$



Use the 3 circled numbers to create a calculation with the answers below:

- 2 6
- 28 (6 2) x 7
- 40 6 x 7 2
- 1.5 $(2 + 7) \div 6$
- $(6 + 7) \times 2$
- 10 $6 \div 2 + 7$

- 3 4 9
- 7 9 ÷ 3 + 4
- $4 \times 9 3$
- 39 (9 + 4) x 3 or 4 x 9 + 3
- 24 (9 3) x 4
- $(3 + 4) \times 9$

Can you make your own?



Use the 3 circled numbers to create a calculation with the answers below:

- 2 5
- 24 $(5 2) \times 8$
- 20 $(8 \times 5) \div 2$
- 26 $(8 + 5) \times 2$
- 50 $(8 + 2) \times 5$
- $(8 + 2) \div 5$

- 3 7 12
- 120 (7 + 3) × 12
- 43 $3 \times 12 + 7$
- 11 12 ÷ 3 + 7
- 3 12 ÷ (7 3)
- 57 $(12 + 7) \times 3$

Can you make your own?



Use the 3 circled numbers to create a calculation with the answers below:



$$2 \div (10 - 9)$$

$$(10 + 9) \times 2$$

$$9 \times 2 + 10$$

$$10 \times 9 - 2$$

$$(9 + 2) \times 10$$





