Order of Operations (BODMAS)

Video 211 on Corbettmaths

Examples

Workout

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Question 1: Work out

(a) $7 + 2 \times 3$ (b) $9 + 4 \times 2$ (c) $10 + 2 \times 2$ (d) $18 + 4 \div 2$

(e) $20 - 5 \times 2$ (f) $8 - 2 \times 3$ (g) $21 - 9 \div 3$ (h) $100 - 40 \times 2$

(i) $16 \div 1 - 3$ (j) $5 + 5 \times 5$ (k) $13 - 7 \div 1$ (l) $7 \times 6 - 4$

(m) $9 + 3 - 2$ (n) $20 - 5 + 6$ (o) $21 - 17 + 4$ (p) $30 \times 4 \div 2$

(q) $(7 + 7) \div 2$ (r) $35 - (9 + 3)$ (s) $40 \times (2 + 3)$ (t) $60 \div (1 + 5)$

(u) $15 \div (3 + 2)$ (v) $9 \times (7 + 4)$ (w) $90 \div (52 - 7)$ (x) $(8 + 9) \times 3$

(y) $10 + 5 + 3 \times 3$ (z) $100 - 6 + 2 \times 3$

Question 2: Work out

(a) $5 - 2^2$ (b) $7 + 3^2$ (c) $9^2 + 1$ (d) $6^2 - 5^2$

(e) $(7 - 2)^2$ (f) $(4 + 3)^2$ (g) $(1 + 2)^3$ (h) $(2 + 8)^3$

(i) $10 - \sqrt{16}$ (j) $\sqrt{(2 + 14)}$ (k) $\sqrt{4} + 3^2$ (l) $2 \times 5 - \sqrt{4}$

Question 3: Work out

(a) $5 \times 3 + 2 \times 6$ (b) $9 \div 3 + 15 \times 2$ (c) $10 \div 2 - 2 \times 1$ (d) $5 \times (2 + 1) + 4$

(e) $8 + (5 - 1) \times 3$ (f) $50 - (1 + 4) \times 4$ (g) $19 \times 2 + 5^2$ (h) $8^2 + 2 \times 3^2$

(i) $7 \times (8 \div 4)^2$ (j) $11 + 11 - 6^2 \div 2$

Question 4: Copy out the following and insert brackets in each to make the correct answer.

(a) $10 \times 2 + 6 = 80$ (b) $5 + 5 \div 5 = 2$ (c) $18 - 6 \div 2 = 6$

(d) $5 + 2 \times 3 + 1 = 13$ (e) $2 \times 7 + 1 \times 3 = 48$ (f) $9 + 3^2 \times 10 \div 2 = 90$

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Apply

Question 1: Matthew says 9 + 3 x 2 = 15. Is he correct?

Question 2: Samuel says 6 + 4 x 9 = 90. Is he correct?

Question 3: Using the numbers 2, 3 and 4 and the operations +, −, and x make as many different possible answers.

Question 4: Matilda thinks of a number, n.
She adds 2 and then multiplies by 3.

Which expression below is correct?

A	B	C
$n + 2 \times 3$	$3n + 2$	$(n + 2) \times 3$

Question 5: Can you spot any mistakes?

Work out $9 + 4 \times 3 + 2$

$= 13 \times 3 + 2$

$= 39 + 2$

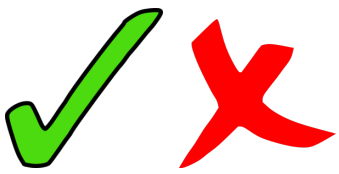
$= 41$

Extension Task

Using four number 2's try to make as many different answers as you can.
You may use +, −, x, ÷ and brackets.

You may use one or more of the 2's as powers.

Answers



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