

Orders of Operations BEDMAS

brackets

exponents

division

multiplication

addition

subtraction

order they appear

order they appear

Orders of Operation

BEDMAS

1. $3 \times 2 + 9$

$$6 + 9$$

$$15$$

2. $7 \times 6 + 4 \times 2$

$$42 + 4 \times 2$$

$$42 + 8$$

$$50$$

BEDMAS

3. $8 \div 2 \times 9$

4×9

36

4. $24 - 7 \times 2$

$24 - 14$

10

5. $36 \div 9 + 7$

$$4 + 7$$

$$11$$

6. $42 \div 6 - 3$

$$7 - 3$$

$$4$$

7. $(4 + 3 \times 2) - 10$

$$(4 + 6) - 10$$

$$10 - 10$$

$$0$$

$$(10 - 2 \times 2) \times 3$$

8. $(10 - 2 \times 2) \times 3$

$$(10 - 4) \times 3$$

$$6 \times 3$$

$$18$$

$$9. \frac{4 \times 2 + 3 \times 6}{2 \times 7 - 1}$$

$$\begin{array}{r} 8 + 3 \times 6 \\ \hline 14 - 1 \\ 8 + 18 \\ \hline 13 \\ \frac{26}{13} = 2 \end{array}$$

$$10. \frac{27 \div 3 + 1}{2 \times 2 + 1}$$

$$\begin{array}{r} 9 + 1 \\ \hline 4 + 1 \\ \frac{10}{5} \\ \textcircled{2} \end{array}$$

$$11. (4 + 3 \times 8 - 5) - 3 \times 5$$

$$(4 + 24 - 5) - 3 \times 5$$

$$(28 - 5) - 3 \times 5$$

$$23 - 3 \times 5$$

$$23 - 15$$

$$(8)$$

Worksheet #1, #5

Plus

$$a) \frac{6 \times 3 + 3 \times 7}{6 \times 4 - 11}$$

$$b) \frac{64 \div 4 + (2 \times 4)}{8 \times 5 + 6 - (2 \times 19)}$$

1. Evaluate.

a. $3 \times 2 + 9$ b. $7 \times 6 + 4 \times 2$
 c. $7 + 2 \times 9$ d. $24 - 7 \times 2$
 e. $36 \div 9 + 7$ f. $42 \div 6 - 3$
 g. $(4 + 3 \times 2) - 10$ h. $(7 \times 2 - 1) + 6$
 i. $(10 - 2 \times 2) \times 3$ ~~j. $(4 - 2^2) \times 5$~~
 k. $(12 - 2 \times 4)^2 - 2$ ~~l. $(13 - 6 \times 2)^2 + 1$~~
 m. $\frac{4 \times 2 + 3 \times 6}{2 \times 7 - 1}$ n. $\frac{12 \times 3 - 4}{4 \times 2}$
 o. $\frac{10 \times 3 - 5 \times 4}{2 + 4 \times 2}$ ~~p. $\frac{17 - 5 + 3}{4^2 - 3^2}$~~
 q. $\frac{27 - 3 + 1}{2 \times 2 + 1}$ ~~r. $\frac{4^2 - 3^2 - 1}{3^2 - 1}$~~

2. Use parentheses to rewrite the expression $29 - 3 \times 2 + 4$ so that it gives this result.

a. 56 b. 11 c. 19

3. Copy and insert parentheses to make a true statement.

a. $3 + 7 \times 2 + 6 - 1 = 4$
 b. $7 - 2 \times 2 + 3 - 5 = 0$
 c. $3^2 \times 2^2 - 4 \times 3 + 1 = 4$
 d. $3 \times 2 + 1 + 2 \times 4 - 3 = 5$

4. Copy and correctly complete the equation using +, -, x, or ÷.

a. $3 \square 2 \square 4 \square 1 = 25$ b. $7 \square 4 \square 2 \square 8 = 22$
 c. $3 \square 10 \square 4 \square 5 = 11$ d. $20 \square 3 \square 6 \square 4 = 6$

5. Use the number decoder to determine the message below by evaluating the following.

A	B	C	D	E	F	G	H	I	J
1	2	3	4	5	6	7	8	9	10

K	L	M	N	O	P	Q	R	S	T
11	12	13	14	15	16	17	18	19	20

U	V	W	X	Y	Z
21	22	23	24	25	26

a. $60 - 56 - 2 - 19$ _____
 b. $(3 \times 7 - 5) \div 2 - 7$ _____
 c. $10 \times 5 - 10 \times 2 - 10 \times 1$ _____
 d. $2(30 - 15 - 10) - 2$ _____
 e. $(4 - 2) \div 2 \times 9 + 14 \div 7 - 2$ _____
 f. $40 - 6 \times 5 + 6 - 2 \times 3$ _____
 g. $10 \times 6 \div 15 - 2$ _____
 h. $60 \div 3 - 10 + 5 \times 8 + 1$ _____
 i. ~~$(3^2 - 2) \times 2 - 9$~~ _____
 j. $5 \times 7 + 10 \times 2 - 5 - 9 \times 2$ _____
 k. ~~$(4 + 3 \times 2)^2 - 6 \times 2 \times 5$~~ _____
 l. $(21 \div 9) \div 10 + 6$ _____
 m. $\frac{10 \times 2 - 2}{2 \times 2 - 1}$ _____
 n. ~~$\frac{2 \times 3}{3 - 1}$~~ _____
 o. $21 - 10 \times 2 + 11$ _____

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1. a. 15 b. 50 c. 25 d. 10 e. 11 f. 4
 g. 0 h. 19 i. 18 j. 65 k. 8 l. 50
 m. 2 n. 4 o. 1 p. 1 q. 2 r. 5

2. a. $(29 - 3) \times 2 + 4$
 b. $29 - 3 \times (2 + 4)$

3. a. $(3 + 7) \times 2 + 6 - 1 = 4$
 b. $7 - (2 \times 2) + 3 - 5 = 0$
 c. $(7 - (2 \times 2 + 3)) - 5 = 0$
 d. $(3 \times 2) \times 2 - (4 \times 3) + 1 = 4$

4. Answers may vary.
 a. $3 \times 2 \times 4 + 1 = 25$ b. $7 \times 4 \div 2 - 8 = 22$
 c. $3 + 10 \times 4 \div 5 = 11$ d. $20 - 3 \times 6 \div 4 = 6$

5. K. 20 L. 9 M. 6 N. 21 O. 12
 P. 1 Q. 21 R. 2 S. 5 T. 1
 U. 13 V. 1 W. 20 X. 8 Y. 9
 Z. 6