

Order of Operations

Test

Name: _____

Use what you know about the *Order of Operations* to complete each question below.

1. The *Order of Operations* allows us to have a specific way in which we approach or “work out” math problems that have more than one operation.
 - a. True
 - b. False
2. The first operation in the *Order of Operations* is multiply.
 - a. True
 - b. False
3. The second operation in the *Order of Operations* is divide.
 - a. True
 - b. False
4. The third operation in the *Order of Operations* is multiply.
 - a. True
 - b. False
5. Put the operations in order from 1 to 6
 - a. Exponents _____
 - b. Subtract _____
 - c. Divide _____
 - d. Parenthesis _____
 - e. Multiply _____
 - f. Addition _____

6. Which operation would you do first in the following equation? _____
 $(6 + 2) - 5 + 7$

7. Which operation would you do first in the following equation? _____
 $8 \div 2 + 6 \times 1$

8. Circle the part you would do first in the following equation?
 $(6 + 2) \div (6 + (4 - 2) + 10)$

9. In which direction would you work the following equations? Circle your answer.

a. $6 + 2 - 5 + 3 - 1$ Left to Right Right to Left Either

b. $8 + 1 + 2 + 9 + 4$ Left to Right Right to Left Either

c. $12 \div 4 * 2$ Left to Right Right to Left Either

10. How can you remember the *Order of Operations*? Write your answer below.

11. Solve the following equation.

$$19 + 2 + (72 \div 9)$$

12. Solve the following equation.

$$27 \div 3 + 6 \times 2$$

13. Solve the following equation.

$$2 \times 4 + (6 + (6 - 2) + 1)$$

14. Solve the following equation.

$$32 \div 4 + 6 - 3$$

15. Solve the following equation.

$$64 \div 8 \times 3 \div 12$$

Bonus: $(15 \div 5) + (10 - 7 + 5) - (6 \times 8) + (36 \div 6)$

Use what you know about the *Order of Operations* to complete each question below.

1. The *Order of Operations* allows us to have a specific way in which we approach or “work out” math problems that have more than one operation.

a. True

b. False

2. The first operation in the *Order of Operations* is multiply.

a. True

b. False

3. The second operation in the *Order of Operations* is divide.

a. True

b. False

4. The third operation in the *Order of Operations* is multiply.

a. True

b. False

5. Put the operations in order from 1 to 6

a. Exponents ___2___

b. Subtract ___6___

c. Divide ___4___

d. Parenthesis ___1___

e. Multiply ___3___

f. Addition ___5___

6. Which operation would you do first in the following equation? ___Parenthesis; add 6+2___
 $(6 + 2) - 5 + 7$

7. Which operation would you do first in the following equation? ___Divide___

$$8 \div 2 + 6 \times 1$$

8. Circle the part you would do first in the following equation?

$$(6 + 2) \div (6 + (4 - 2) + 10)$$

16. In which direction would you work the following equations? Circle your answer.

a. $6 + 2 - 5 + 3 - 1$ Left to Right Right to Left Either

b. $8 + 1 + 2 + 9 + 4$ Left to Right Right to Left Either

c. $12 \div 4 * 2$ Left to Right Right to Left Either

9. How can you remember the *Order of Operations*? Write your answer below.

___PEMDAS; Purple Elephants Marching Down A Street; Please Excuse My Dear Aunt Sally___

10. Solve the following equation.

$$19 + 2 + (72 \div 9)$$

$$72/9 = 8$$

$$29$$

$$19+2+8 = 29$$

11. Solve the following equation.

$$27 \div 3 + 6 \times 2$$

$$27/3=9 \quad 6*2=12 \quad 9+12=21$$

$$21$$

12. Solve the following equation.

$$2 \times 4 + (6 + (6 - 2) + 1)$$

$$6-2=4; 6+4+1=11; 2*4=8; 8+11=19$$

$$19$$

13. Solve the following equation.

$$32 \div 4 + 6 - 3$$

$$32/4=8; 8+6=14; 14-3=11$$

$$11$$

14. Solve the following equation.

$$64 \div 8 \times 3 \div 12$$

$$64/8=8; 8*3=24; 24/12=2$$

$$2$$

Bonus: $(15 \div 5) + (10 - 7 + 5) - (6 \times 8) + (36 \div 6)$

$$\begin{aligned} & 3 + 8 - 48 + 6 \\ & 11 - 48 + 6 \\ & -37 + 6 \\ & = -31 \end{aligned}$$