


Concept: Order of Operations

Name: _____

COMPUTER COMPONENT

Instructions: In  follow the **Content Menu** path:

Whole Numbers and Integers > Order of Operations



Work through all Sub Lessons of the following Lessons **in order**:

- *Order in Addition-Whole Numbers **and** Integers*
- *Order in Multiplication- Whole numbers **and** Integers*
- *Why use Order of Operations Whole Numbers and Integers*
- *BEDMAS*
- *Please Excuse My Dear Aunt Sally*
- *Example Questions- Whole Numbers **and** Integers*
- *Word Problems*



As you work through the computer exercises, you will be prompted to make notes in your notebook/math journal.

OFF COMPUTER EXERCISES

1. Circle **true** or **false** for each of the following questions.

- | | | |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|
| (a) Addition can be performed in any order. | <input checked="" type="radio"/> true | <input type="radio"/> false |
| (b) The B in BEDMAS tells us to start with the outermost brackets, then work inward. | <input type="radio"/> true | <input checked="" type="radio"/> false |
| (c) Addition and Subtraction occur before Division and Multiplication according to the Order of Operations rules. | <input type="radio"/> true | <input checked="" type="radio"/> false |
| (d) Division and Multiplication are performed from left to right. | <input checked="" type="radio"/> true | <input type="radio"/> false |
| (e) The E in BEDMAS stands for an equal sign. | <input type="radio"/> true | <input checked="" type="radio"/> false |

2. Use your knowledge of BEDMAS to help you solve these problems.

(a) $(+5) - (3)(2)$

$= (+5) + (-6)$

$= -1$

(b) $(-4) + 8 \div 2$

$= (-4) + (+4)$

$= 0$

(c) $(-9)(+6) \div (+3)$

$$= (-54) \div (+3)$$

$$= -18$$

(e) $(-10 + 2) \times (8 - 1)$

$$= (-8) \times (7)$$

$$= -56$$

(g) $4[8(4 - 8) \div (-2)]$

$$= 4(-32 \div -2)$$

$$= 4(+16)$$

$$= +64$$

(i) $[-8 + (-9)(3)] \div [(-15) - (+20)]$

$$= (-8 + (-27)) \div (-35)$$

$$= (-35) \div (-35)$$

$$= 1$$

(k) $\frac{3 - 9}{(+5) + (-7)}$

$$= -6 \div -2$$

$$= 3$$

(m) $\frac{(30)(-4) + (8)(10)}{2 + (-2)(3)}$

$$= ((-120) + (80)) \div -4$$

$$= -40 \div -4$$

$$= 10$$

(d) $12 \div (-4) - 1(-8)$

$$= (-3) + (+8)$$

$$= +5$$

(f) $-5(9 - 4 \times 6)$

$$= -5(-15)$$

$$= +75$$

(h) $[((-8) + 5) \times (-1)] \times [(-4)(-3) \div (-2)]$

$$= ((-3) \times (-1)) \times ((+12) \div (-2))$$

$$= (+3) \times (-6)$$

$$= -18$$

(j) $(+36) \div [(-14) - (-11)] + (+4)$

$$= (+36) \div (-3) + (+4)$$

$$= (-12) + (+4)$$

$$= -8$$

(l) $\frac{9(-9 + 4)}{[(-1) + 2 \times 3]}$

$$= 9(-5) \div (-5)$$

$$= -45 \div (-5)$$

$$= 9$$

(n) $\frac{(10)(10) + (4)(-5)}{-6-4}$

$$= ((100) + (-20)) \div -10$$

$$= (80) \div -10$$

$$= -8$$

3. A mechanic charges his customers \$15 per visit plus \$25 for every hour that he works on their vehicle. If he works on a van for 5 hours, how much will he charge the customer? *Use integers as you solve this problem.*

$$(+25)(+5) + 15$$

$$= 125 + 15$$

$$= 140 \quad \text{\$140 He will charge the customer \$140.}$$

4. A grocery store makes a fruit basket consisting of 4 pears, 6 apples, 8 oranges, and 2 bananas. If the store receives 11 orders for gift baskets on a certain day, how many pieces of fruit are they using altogether? *Use integers as you solve this problem.*

$$11(4 + 6 + 8 + 2)$$

$$= 11(20)$$

$$= 220 \quad \text{They will be using 220 pieces of fruit altogether.}$$