




## Concept: Order of Operations

Name: \_\_\_\_\_


### COMPUTER COMPONENT

**Instructions:** Select the computer program *Understanding Whole Numbers and Integers* (Neufeld)  
 Follow the instructions to the Main Menu.  
 Select *Order of Operations* from the Main Menu.



Work through all sections of the following topics **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*
- *Practice Questions*



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

When you reach the end of the section *Practice Questions* on the computer, move on to the **OFF COMPUTER EXERCISES** portion of this handout.

### OFF COMPUTER EXERCISES

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

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

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

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

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=

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

=

=



Whole Numbers and Integers Outline for Topic 9: Order of Operations

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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

=

=

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.*

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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 all together? *Use integers as you solve this problem.*

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