

# Homework #4

## Integer Word Problems

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

Class Period: \_\_\_\_\_

Date: \_\_\_\_\_

Methods and vocabulary reminders:

Be sure to underline or highlight key words that represent **positive** or **negative** numbers. Write out the entire expression before evaluating.

### Homework Feedback

You understand this ☺:

Correct some questions ☺:

Correct and resubmit for credit ☹:

Extra Help might be needed ☹:

1. Find the value of each side and determine if  $<$ ,  $>$  or  $=$  should be used. **No Calculator.**

a.

$$-3(-2) + 3 \underline{\hspace{2cm}} 3(-4) + 9$$

b.

$$-8(-2) - 20 \underline{\hspace{2cm}} 3(-2) + 2$$

c.

$$-7(5) - 9 \underline{\hspace{2cm}} -3(20) + 10$$

d.

$$-16(0) - 3 \underline{\hspace{2cm}} -8(-2) - 3$$

2. Evaluate each expression. **No Calculator.**

a.

$$-12(-3) + 7 \underline{\hspace{2cm}}$$

d.

$$-42 \div (-6) + 5 - 8 \underline{\hspace{2cm}}$$

b.

$$10(-60) - 18 \underline{\hspace{2cm}}$$

e.

$$(-11)(-7) + 5 - 82 \underline{\hspace{2cm}}$$

c.

$$35 \div (-7) + 6 \underline{\hspace{2cm}}$$

f.

$$-13(-2) - 16 - 8 \underline{\hspace{2cm}}$$

3. Write and evaluate an integer expression for each statement.

8 less than the product of 5 and  $-4$

\_\_\_\_\_

9 more than the quotient of  $-36$  and  $-4$ .

\_\_\_\_\_

4. For each story write and evaluate a simple integer expression to answer the question.

- a. When Steve woke up. His temperature was  $102^{\circ}$  F. Two hours later it was  $3^{\circ}$  lower. What was his temperature then?
- b. An elevator is on the twentieth floor. It goes down 11 floors and then up 5 floors. What floor is the elevator on now?
- c. A deep-sea exploring ship is pulling up a diver at the rate of 25 feet per minute. The diver is 200 feet below sea level. How deep was the diver 10 minutes ago?
- d. If it is  $5^{\circ}$  outside and the temperature will drop  $17^{\circ}$  in the next six hours, how cold will it get?
- e. It will be  $-12^{\circ}$  tonight. The weatherman predicts it will be  $25^{\circ}$  warmer by noon tomorrow. What will the temperature be by noon tomorrow?
- f. The elevation of Mt. Everest is 29,028 feet. The elevation of the Dead Sea is  $-485$  feet. What is the difference in the elevation between Mt. Everest and the Dead Sea?
- g. While watching a football game, Lin Chow decided to list yardage gained as positive integers and yardage lost as negative integers. After these plays, Lin recorded 14,  $-7$ , and 9. What was the net gain or loss?
- h. Felix reported that the coldest day on record for his town was five times colder than yesterday's temperature,  $-4^{\circ}$  C. What was the temperature of the coldest day on record in Felix's town?