

Name \_\_\_\_\_

Date \_\_\_\_\_

## Chapter 2 Study Guide Blue

Compare using  $>$ ,  $<$ , or  $=$ .

1)  $-6$        $-2$

2)  $-4$        $2$

Order from least to greatest.

3)  $-3, 4, 0, -5, -2$

4)  $-\sqrt{16}, 5, -3.5, -4, \sqrt{4}$

Evaluate.

5)  $|5|$

6)  $|-11|$

7)  $|-3| + |1 - 5|$

8)  $-(-3)$

9)  $-(-2x + 3)$

Find the sum, difference, product, or quotient of each. Think \$ or socks.

$10) -4 + 3 =$

$11) -10 + (-7) =$

$12) 3 + (-9) =$

$13) 4 - 9 =$

$14) -1 - 6 =$

$15) -3 - (-8) =$

$16) -3(9) =$

$17) -3(-9) =$

$18) -18 \div -3 =$

$19) \frac{-32}{8} =$

$20) (-4)(x)(3)(x)(-2)$

Evaluate:

21)  $\sqrt{25}$

22)  $-\sqrt{121}$

23)  $\pm\sqrt{49}$

Estimate each to the nearest integer.

24)  $\sqrt{46}$

25)  $-\sqrt{62}$

Combine Like Terms:

26)  $3x + 9 - 2x - 4 + x$

27)  $5x^2 - 3x + 6 - 3x^2 + 4x - 7$

Distribute:

28)  $4(5x + 3)$

29)  $-2(4x - 6)$

Distribute and Combine:

30)  $3(4x + 7) + 4x$

31)  $-3(-5x + 3) - 5x + 3$

Word Problems:

32) The temperature at night was  $-7^{\circ}F$ . 12 hours later it was  $2^{\circ}F$ .

How much did the temperature rise in 12 hours? \_\_\_\_\_

Picture:

33) A diver was at  $-30$  feet. He climbed 12 feet. Where is he now?

\_\_\_\_\_

Picture: