Unit 1 Test Review Stations

Level 1:

1. _____ $-8, -6, 0, 3, 4$ _____

2. _____ $-5, -3, -1, 2, 7$ _____

3.   a. ___ 3 ___   b. ___ $\frac{1}{2}$ ___   c. ___ -4 ___   d. ___ 3 ___

4a.

4b.

4c.

4d.
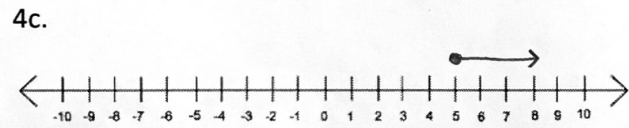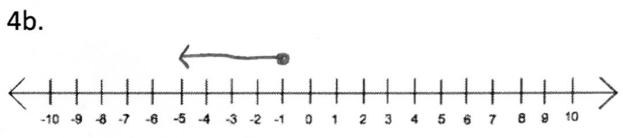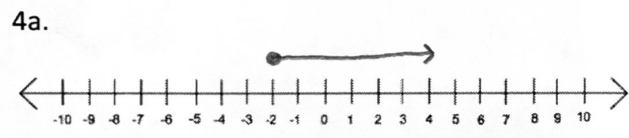
Level 2:

5.   a. ___ $=$ ___   b. ___ $>$ ___   c. ___ $<$ ___   d. ___ $<$ ___

6.   a. ___ -10 ___   b. ___ 8 ___   c. ___ -23 ___   d. ___ -18 ___

7.   a. ___ always ___   b. ___ always ___   c. ___ always ___   d. ___ zero ___

Level 3:

8. a. __16__ b. __-7__ c. __-4__ d. __11__

9. __3__

10. __$38__

11. __A, E__

Level 4:

12. a. __0__ b. __-4__ c. __4__

13. a. __<__ b. __>__ c. __=__ d. __>__

14. __-8__

15. __-10__

16. a. $\frac{17}{12}$ or $1\frac{5}{12}$ b. __$\frac{5}{7}$__ c. __1__ d. __-3.5__

Level 5:

17. a. __4__ b. __4__ c. __16__ d. __18__

18. x = __67__

19. a. __-1.535__ b. __-14.32__ c. __$-\frac{4}{7}$__ d. __$-\frac{3}{10}$__

20. __A__

Level 1

1. Put the following integers in order from **least to greatest**:

   4, -8, 0, -6, 3

   $-8, -6, 0, 3, 4$

2. Put the following integers in order from **least to greatest**:

   2, -3, 7, -1, -5

   $-5, -3, -1, 2, 7$

3. Simplify the following:

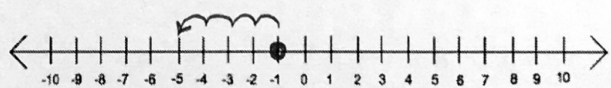   a) $|-3|$ 3

   b) $|\frac{1}{2}|$ $\frac{1}{2}$

   c) $-|-4|$ -4

   d) $|5-8|$ 3

4. Use the number line to complete the following addition and subtraction problems.
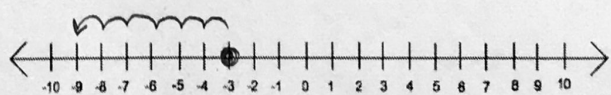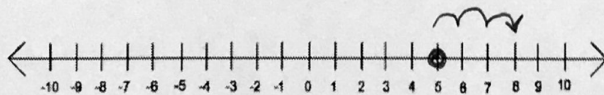
   a) $-2+6 =$ __4__

   b) $-1+(-4) =$ __-5__

   c) $5-(-3) =$ __8__

   d) $-3-6 =$ __-9__

Level 2

5. Fill in each blank with >, <, or =.

    a) $|-2|$ = $|2|$

    b) $|5|$ > $-|-5|$

    c) $|-19|$ < $|-21|$

    d) $|-1+3|$ < $|1+3|$

6. Simplify.

    a) $-2 + (-8) =$ __-10__

    b) $13 + (-5) =$ __8__

    c) $-14 - 9 =$ __-23__

    d) $4 - 22 =$ __-18__

7. Fill in the blanks.

    a) The sum of two positive integers is (<u>always</u>/sometimes/never) positive.

    b) The sum of two negative integers is (<u>always</u>/sometimes/never) negative.

    c) Absolute value is (always/<u>sometimes</u>/never) positive.

    d) Additive inverse refers to the number added to another value to get a sum of (<u>zero</u>, one).

Level 3

8. Find the missing values.

   a) -3 + _16_ = 13

   b) 4 + _-7_ = -3

   c) 5 - _-4_ = 9

   d) _11_ + (-11) = 0

9. Simplify.   -5 + 18 + (-3) + 12 + (-19)

   $$30 + (-27) = 3$$

10. Below is a summary of Joe's bank activity. What was his account balance after all transactions?

| + Credits	− Debits
$14	$55
$28	$22
+ $67	+ $44
109	71

$$109 + (-71) = \$38$$

11. Which scenarios represent additive inverse? Select all that apply.

   (a) Tara buys two shirts for $30 each. Tara then works four hours and earns $15/hr.

   b) Sam deposits $150 into his account. Sam then writes a check for $55 and a check for $85.

   c) Mikayla missed 4 questions on the test. Each question was worth 4 points.

   d) Jerry added three paragraphs to his essay. He later adds three more paragraphs.

   (e) While scuba diving, Beth descended a total of 30m before returning to the water's surface.

Level 4

12. Use the number line to find the value of each expression.

Number line labeled A at -3 and B at 2, with marks from -5 to 5.
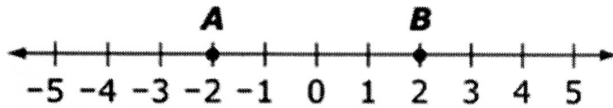
   a) What is the value of A + B? O

   b) What is the value of A – B? -4

   c) What is the value of B – A? 4

13. Fill in each blank with >, <, or =.

   a) $-2 + (-9) < |-11|$

   b) $-5 – (-10) > 2 + (-7)$

   c) $-13 + 2 = -5 – 6$

   d) $-|3 – 9| > 3 – 10$

14. If a – b = a + 8, what is the value of b? -8

15. If a + b = a – 10, what is the value of b? -10

16. Find each sum or difference.

   a) $\frac{3}{4} + \frac{2}{3} = \frac{17}{12}$ or $1\frac{5}{12}$

   b) $-\frac{3}{7} + \frac{8}{7} = \frac{5}{7}$

   c) -0.5 + 1.5 = 1

   d) 2.5 – 6 = -3.5

$\frac{3.3}{4.3} + \frac{2.4}{3.4}$

$\frac{9}{12} + \frac{8}{12} = \frac{17}{12} = 1\frac{5}{12}$

$2.5 + (-6)$

$\begin{array}{r} 6.0 \\ -2.5 \\ \hline 3.5 \end{array}$

Level 5

17. Find the distance between each set of integers.

    a) 2 and 6   4 $|2-6|$

    b) -10 and -14   4 $|-10-(-14)|$

    c) -10 and 6   16 $|-10-6|$

    d) 13 and -5   18 $|13-(-5)|$

18. Find the missing value. $17 + (-99) - 12 + 34 + x - 7 = 0$ $\boxed{x = 67}$

$$17 + (-99) + (-12) + 34 + (-7) + x = 0$$

$$51 + (-118) + x = 0 \qquad -67 + x = 0$$

19. Simplify each expression.

    a) $2.865 + (-4.4)$ -1.535

    b) $-9.22 - 5.1$ -14.32

    c) $-8/7 - (-2/7)$ $-6/7$ $\dfrac{-8}{7} + \dfrac{2}{7} = \dfrac{-6}{7}$

    d) $3/10 + (-3/5)$ $-3/10$

$$\dfrac{3}{10} + \dfrac{-6}{10} = \dfrac{-3}{10}$$

20. Which pair of numbers has the GREATEST distance between them on a number line?

    (a) 2.35 and 9   6.65

    b) -5.6 and -11.82   6.22

    c) 3.98 and -2.46   6.44

    d) 6.02 and 0.75   5.27