

### Unit 1 Test Review

1. Simplify the following:

- a)  $8 + (-12) = -4$
- b)  $2 - (-15) = 17$
- c)  $-6 - 10 = -16$
- d)  $(-11) - (-4) = -7$

2. Simplify the following:

- a)  $|-3| = 3$
- b)  $-|3| = -3$
- c)  $10 + |-3| = 13$
- d)  $10 - |3| = 7$

3. Find each missing value below.

a)  $12.4 + x = 0$   
 $x = -12.4$

b)  $9 + x + (-3) = 0$   
 $x = -6$

c)  $-18 + 35 + x - 54 = 0$   
 $x = 37$

d)  $0.8 + \frac{3}{5} - \frac{7}{10} - (-0.5) + x = 0$   
 $x = -1.2$  or  $-\frac{1}{5}$

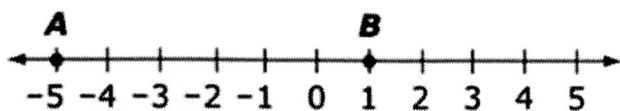
4. Find the difference between the following pairs of values:

a) 18 feet above sea level and 20 feet below sea level  
 $18 - (-20) = 38 \text{ ft}$

b) A credit of \$29.28 and a debit of \$12.83  
 $29.28 - (-12.83) = \$42.11$

c) 45 degrees and 18 degrees below zero  
 $45 - (-18) = 63^\circ$

5. Two points,  $A$  and  $B$ , are labeled on the number line.



What is the value of  $A$ ?  $-5$

What is the value of  $B$ ?  $1$

What is the value of  $A + B$ ?  $-4$

What is the value of  $A - B$ ?  $-6$

What is the value of  $B - A$ ?  $6$

7. Julie is reading her monthly bank account statement, which shows the following transactions.

What should his account balance read for this month?

$$\$26.67, -\$23.88, \$45.91, -\$18.37, \$10.38 = \$40.71$$

8. Fill each blank with a  $>$ ,  $<$ , or  $=$ .

a)  $-5 + 5 < 6 - (-6)$

b)  $|-8 + 4| = |8 - 4|$

c)  $-|24 - 8| = -12 - 4$

d)  $|-9| - (-2) = -1 - (-12)$

9. Find the distance between the following numbers. (Hint:  $|x - y|$ )

a)  $-2$  and  $-4$   $2$

b)  $-8$  and  $3$   $11$

c)  $14$  and  $87$   $73$

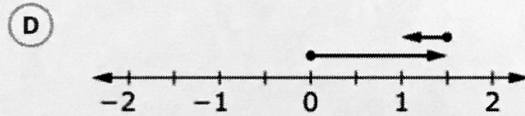
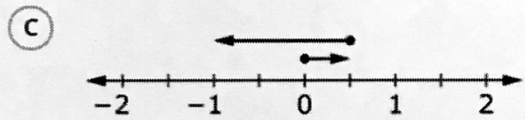
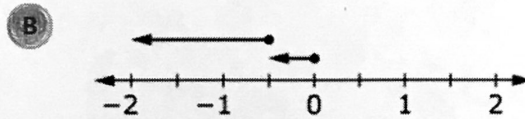
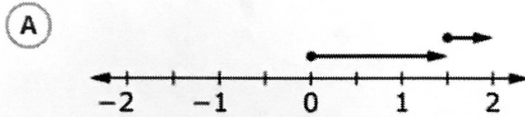
d)  $-29$  and  $45$   $74$

10. Find the missing values below.

a) If  $a - b = a + 9$ , what is the value of  $b$ ?  $b = -9$

b) If  $c + d = c - 2$ , what is the value of  $d$ ?  $d = -2$

11. Which number line model represents the sum of  $-\frac{1}{2} + (-\frac{3}{2})$ ?



12. Find each sum.

a)  $0.829 + 24.3$

$25.129$

b)  $-53.87 + 97$

$43.13$

13. Find each difference.

a)  $\frac{3}{8} - 1\frac{3}{4}$

$\frac{3}{8} - \frac{14}{8} = -1\frac{3}{8}$

b)  $-\frac{4}{5} - \frac{11}{15}$

$-\frac{12}{15} - \frac{11}{15} = -\frac{23}{15} = -1\frac{8}{15}$

14. Find the distance between...

A & B: 7

A & C: 11

