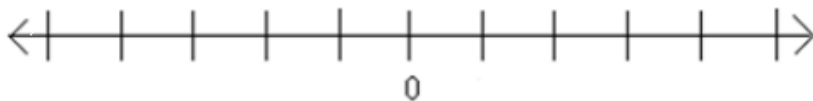


Name: _____ Group: _____ Date: _____

Unit 1 Test Review

1. Plot the letter with the correct number on the number line.

$A = -2\frac{1}{2}$ $B = |-4.5|$ $C = -3$ $D = \text{the opposite of } -1$



2. Identify the set to which each of the following numbers belongs to by making an “x” in the appropriate boxes.

Number	Natural	Whole	Integer	Rational	Irrational
0					
-5					
$\frac{1}{2}$					
$\sqrt{2}$					
-1.25					
13					
$-\frac{2}{5}$					
4^2					
-14.6					
2					
-4					
10					
$(-8)^2$					
-1,248					
π					
$\sqrt{36}$					
5.7					

3. Evaluate.

a. $-9 + (-4) =$

b. $7 - 12 + (-9) =$

c. $-10 + 7 =$

d. $17 - (-16) =$

e. $15 + (-6) =$

f. $-8 - 4 =$

g. $|-14 - (-6)| =$

h. $-32 + (-14) =$

i. $16 - 20 =$

j. $-14.7 - (8) =$

k. $-17 - 8 =$

l. $7 - (-23) =$

m. $9(-3) =$

n. $(-4)(-3) =$

o. $-27 \div 9 =$

p. $\frac{-30}{-5} =$

q. $-6 \cdot 6 =$

r. $-86 - (-19) =$

s. $50 \div (-10) =$

t. $12 \cdot (-5) =$

u. $-1(-9) =$

v. $7(-4) =$

w. $-9(-8) =$

x. $\frac{516}{-12} =$

y. $\frac{-11}{-11} =$

z. $(9 - 15)^2 =$

aa. $36 \div (-3) =$

bb. $-14 - (-28) =$

cc. $18 + (-11) =$

dd. $-102 \div (-6) =$

ee. $-8 + 15 - (-19) =$

ff. $|-22 - 20| =$

gg. $78 - (-53) =$

hh. $-12 \div 3 \cdot (-6) =$

ii. $-27 \div (-2) =$

jj. $-7^2 =$

4. Evaluate the expressions using the order of operations.

a) $[-6 + (-7)] + 2(-5)$

b) $(9 - 15 + 7) + 3^2$

c) $5 \cdot 9 \div 3 + 21 - 47$

d) $4(26 - 14) \div 8$

e) $2(4 - 11) + [24 \div 6 \cdot (-3)]$

f) $(-4)^2 + [8 - 5 + (-6)] - 13$

5. Solve the expression below when $b = -5$.

$$[(4 - b) \div 3] + 6(-2)$$

6. Solve the expression below when $m = 14$.

$$m - 22 + (9 - 4^2) + 18$$

7. Answer the word problems below. Underline the key word in each problem. Show your work.

- a. The highest temperature recorded in Connecticut is 103°F . The lowest temperature recorded in Connecticut is -32°F . What is the difference of the highest and lowest temperature?
- b. Joey had \$50 in his bank account. He withdrew \$68 on Monday and then deposited \$25 on Tuesday. How much money does Joey have in his bank account now?
- c. A submarine was 428 feet below sea level. If it ascends 124 feet, what is the submarine's new position?
- d. Marissa is on a game show. In round 1 she gains 200 points. In round 2, she loses 75 points and in round 3, she loses 100 points. What was her score at the end of the game?

8. Find and circle the error. Then, correctly solve the problem and explain what the error was.

a.

Evaluate:

$$-8 + 2(9 - 21) \div 6$$

$$-8 + 2(-12) \div 6$$

$$-6(-12) \div 6$$

$$36 \div 6$$

$$6$$

Your Work

Explain Error

b.

Evaluate:

$$(3 - 9)^2 \div (-12) - (-3)$$

$$(-6)^2 \div (-12) - (-3)$$

$$-36 \div (-12) - (-16)$$

$$3 - (-16)$$

$$19$$

Your Work

Explain Error
