

Unit 2 Review Sheet

Name key HR _____

I can compare integers to find which is bigger.

Write an integer for each situation. Label if needed.

1) The fourteenth story of a building in Minneapolis

1) 14

2) Death Valley is 282 feet below sea level

2) -282

Replace each ____ with $<$, $>$, or $=$ to make a true sentence.

3) -1 $<$ 0

4) $|-5|$ $=$ 5

5) -11 $>$ -15

6) $|44|$ $>$ $|-42|$

I can add and subtract positive and negative integers.

Evaluate each sum or difference.

7) $-18 + (-6)$

8) $-5 + 19$

7) -24

8) 14

9) $(-7) + (-11) + 5$
 $= -18 + 5$

10) $-10 + 13 + (-9)$
 $= 3 + (-9)$

9) -13

10) -6

I can multiply and divide positive and negative integers.

Find each product or quotient.

11) $-5(12)$

12) $-110 \div (-10)$

11) -60

12) 11

13) $-3 \cdot (-7)$

14) $168 \div (-4)(7)$
 $= -12(7)$

13) 21

14) -294

I can find absolute values. I can evaluate expressions.

Evaluate each algebraic expression if $x = -4$, $y = 2$, and $z = 6$.

15) $|x| + |y|$
 $= |-4| + |2|$

16) $24 + 3x \div z$
 $= 24 + 3(-4) \div (6)$
 $= 24 + (-12) \div (6)$
 $= 24 + (-2)$

15) 6

16) 22

17) $4x + 5y$
 $= 4(-4) + 5(2)$
 $= -16 + 10$

18) $15 + |xz|$
 $= 15 + |-4 \cdot 6| = 15 + 24$

17) -6

18) 39



I can find points and their opposites on a number line.

Answer questions 19-22 using the number line above.

19) Graph the point that shows $|9|$

20) -9

20) What is the opposite of the point you graphed in #19?

21) Graph the answer to $-|7| + |3| = -7 + 3 = -4$

22) 4

22) What is the opposite of the point you graphed in #21?

I can simplify expressions.

Simplify each algebraic expression.

23) $4a(-8b)$

23) -32ab

24) $9(-y)(-5z)$

24) 45yz

APPLICATION

Real-World Situations

25) Ms. Hall visited the Lewis and Clark Caverns in Montana this summer. She descended into the caves at a rate of 3 feet per minute. What was her change in position after 60 minutes?

$$-3 \cdot 60 = -180 \text{ ft.}$$

25) -180 ft.

26) Ms. Pint was in the elevator of the Empire State Building in New York on the 82nd floor. The elevator went down 8 floors, up 26 floors, and then up another 2 floors to the very top! How many stories is the Empire State Building? (Hint: at what floor did it stop?)

$$82 - 8 + 26 + 2 = 74 + 26 + 2 = 100 + 2 = 102$$

26) 102

27) On February 8th of 1996, the temperature was 0°F at noon. The temperature reached a record low of -60°F six hours later. On average, what was the temperature change per hour?

$$-60 \div 6 = -10$$

27) -10°F/hr