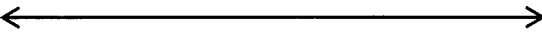


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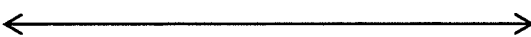
Date/Hour _____

Co-Teach Algebra 1(A) Final Review #2

Solve and graph each inequality.

1. $x + 5 > 10$ 

2. $n - 15 \leq -3$ 

3. $y + 0.9 < 3.09$ 

4. $d - 6 \geq -5$ 

5. Marsha is stocking the art supply cabinet at school. The paint brushes she needs to buy cost \$1.75 each, and the paint costs \$2.45 per jar. Write an expression to show how much she will spend if she buys b paint brushes and j jars of paint.

6. Lon's checking account is overdrawn by \$30. How much does he need to deposit so that he has a balance of \$150?

7. Toby bought a car for \$9299. He paid \$1500 as a down payment. How much money did he have to borrow in order to pay for the rest of the car?

8. Rita has \$15 to spend on new baseball cards. She decides to buy a card that costs \$3. What is the most she can spend on other cards?

The formula for the perimeter, P , of a triangle with sides of lengths a , b , and c is $P = a + b + c$

9. Use the formula to find P when $a = 3.5$, $b = 4.7$, and $c = 5.9$

10. Use the formula to find b when $P = 13.5$, $a = 4.5$, and $c = 4.5$

11.) Simplify: $|-10|$

12.) Simplify: $x - 8x =$

13.) Simplify: $2 - 2p + 3 - 2 + p$

14.) Subtract: $-2 - (-56)$

15.) If $a = -4$ and $b = 2$, find $-(a + b)$.

16.) Robert earns \$6 per hour. Write an expression which represents the amount of money he earns in h hours.

17.) Sam charges \$0.35 per pound of grapes. Write an expression which shows the cost for p pounds of grapes?

18.) The formula for the perimeter of the rectangular shown is $P = 2l + 2w$. Find the perimeter for the length and width given.

19.) Write an example of an equation.

20.) Evaluate: $2p - 6$ when $p = 7$

21.) Simplify: $a + 9a - 2a + 8a$

22.) Simplify: $-39 - 4a + 18 - 2a$

23.) How many \$18 CD's can you buy with \$90?

24.) What is the pattern used to find the terms in the sequence; 6, 15, 24, 33, 42, ...?

25.) What are the next three terms in the sequence: 10, 15, 20, 25, 30, _____, _____, _____?

26.) The first four terms of a sequence are 7, 4, 1, -2.... What are the next three terms?

27.) What are the next three terms in the sequence: 23, 27, 31, 44, _____, _____, _____?

28.) What is the pattern for the sequence: 0.2, 2, 20, 200, 2000, ...?

29.) Julie has \$83 dollars in her savings account. She withdrew \$15 one week and deposited \$23 the next. What is the balance in her account?

30.) Add: $-24 + 28 + |-10|$

31.) The symbol \leq is read:

32.) $x > 50$ is the same as:

33.) A sequence in which you generate terms by multiplying the previous terms would be linear or exponential?

34.) A sequence in which you generate terms by adding to the previous term would be linear or exponential?

35.) Write an example of an expression.

36.) On Sunday the temperature in Phoenix was 75°F and in Minneapolis it was -5°F . How much warmer was it in Phoenix?

37.) Solve: $b + 2300 = -3600$

38.) Solve: $x + 0.38 = 3$

39.) If $17 - x = -19$, then $x = ?$