

Name: _____ Period: _____

Week 3 Homework Packet – 7th Grade Math Honors

SCORE
/4

WEEK SCORE
/12

Stamp

ASSIGNMENT DUE TUESDAY, AUGUST 23, 2016

Unit 1, Chapter 1 - The Language of Algebra

Add the following positive and negative integers.

1) $(-4) + (-11)$

Answer

2) $-9 + 14$

Answer

3) $21 + (-15)$

Answer

4) $17 + 14$

Answer

5) $-11 + 3$

Answer

6) $5 + (-4)$

Answer

7) $12 + (-17) + 5$

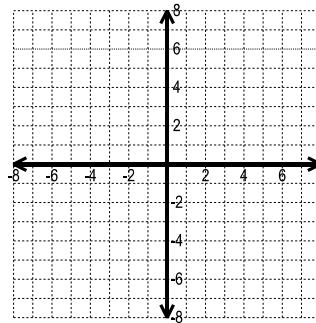
Answer

8) $-4 + 9 + (-2)$

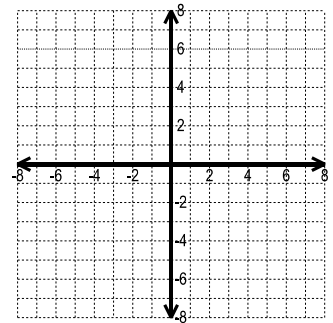
Answer

Graph each coordinate below on the given coordinate grid.

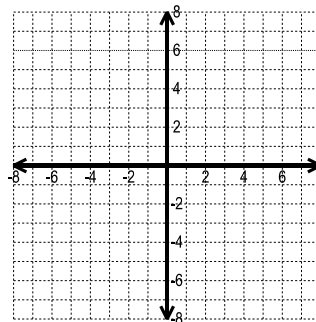
9) $(4, -7)$



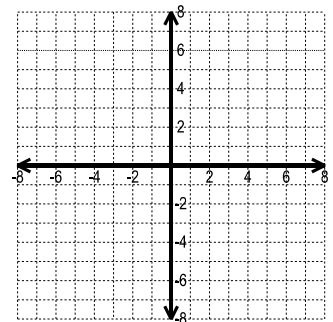
10) $(1, -5)$



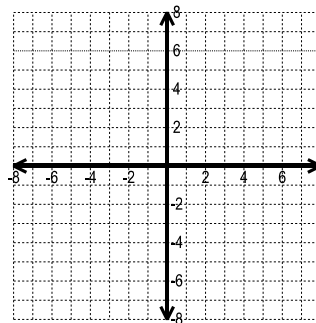
11) $(8, 2)$



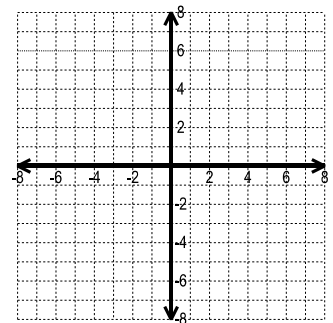
12) $(-4, 0)$



13) $(-1, -6)$



14) $(-3, 8)$



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ASSIGNMENT DUE WED/THU, AUGUST 24/25, 2016

Unit 1, Chapter 1 - The Language of Algebra

For problems 1–10, write a mathematical expression for each verbal phrase.

- 1) Five plus three times a number
- 2) One-half of a number
- 3) Twice the sum of a number and seven
- 4) Four less than twice a number
- 5) Fifteen times a number
- 6) Six subtracted from three times a number
- 7) Two-thirds of a number
- 8) Five more than four times a number
- 9) The square of the sum of a number and two
- 10) Three times the difference of a number and four

You are planning to throw a party and need to buy soda and chips for it. At the grocery store, each bottle of soda costs \$2 and each large bag of chips costs \$5.

11) If you want to buy four bottles of soda and three bags of chips, how much will they cost in total? Show all of your work.

12) Write an algebraic expression that you could use to calculate how much it costs if you buy c bags of chips and s bottles of soda.

13) You want to earn some extra money by walking dogs. You decide to set your price based on the size of the dog. You will charge \$5 to walk a dog that is under 20 pounds, \$8 to walk a dog between 21 and 40 pounds, and \$12 to walk a dog that is 41 or more pounds. If x represents the number of dogs that are under 20 pounds, y represents the number of dogs that are 21–40 pounds, and z represents the number of dogs that are 41 pounds or more, write an algebraic expression to represent how much money you will earn.

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ASSIGNMENT DUE FRIDAY, AUGUST 26, 2016

Unit 1, Chapter 1 - The Language of Algebra

For each problem below, name the property that is shown.

1) $13 + 0 = 13$

2) $12 + 17 = 17 + 12$

3) $(3 + 8) + 6 = 3 + (8 + 6)$

4) $38 \cdot 1 = 38$

5) $(5 \cdot 2) \cdot 8 = 5 \cdot (2 \cdot 8)$

6) $3 \cdot 7 \cdot 6 \cdot 5 \cdot 14 \cdot 0 \cdot 32 = 0$

7) $6 \cdot 14 = 14 \cdot 6$

Use the properties of numbers to simplify the following algebraic expressions.

8) $(m + 14) + 12$

9) $(3k) \cdot 7$

10) $4q(8)$

11) $(8 + r) + 11$

12) $26 + (1 + d)$

13) $6(9x)$