

Name: _____ Period: _____

Week 4 Homework Packet – 7th Grade Math Honors

SCORE
/4

WEEK SCORE
/12

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ASSIGNMENT DUE TUESDAY, AUGUST 30, 2016

Unit 1, Chapter 1 – The Language of Algebra

For problems 1–6, identify the pattern that the numbers follow, then write the next three numbers of the sequence.

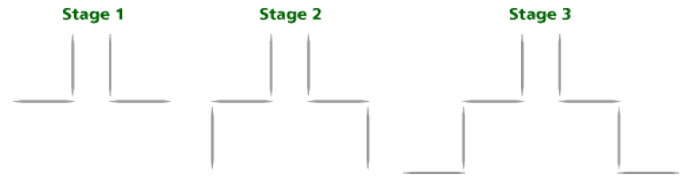
- 1) 1, 4, 7, 10, 13, _____, _____, _____
- 2) 192, 96, 48, 24, _____, _____, _____
- 3) 3, 4, 6, 9, 13, 18, _____, _____, _____
- 4) 2, 6, 18, 54, _____, _____, _____
- 5) 4, -7, 10, -13, 16, _____, _____, _____

Solve the following problems by making a guess and checking if it is correct. If it is not correct, keep making guesses until you get it right. Show how you know your answer is correct.

6) Shannon is four years older than her brother. Five years ago, she was twice as old as her brother. How old is Shannon?

7) You have four coins in your pocket that total 80 cents in value. What could the coins be? (Can you think of a second solution?)

Use the following pattern of toothpicks:



8) If the pattern continues, how many toothpicks will there be in Stage 4?

9) If the pattern continues, how many toothpicks will there be in Stage 10?

10) Tremaine has 41 baseball cards in his collection and every week he uses his allowance to buy a pack of cards that contains exactly 10 cards. Given this pattern, will Tremaine ever have exactly 344 cards in his collection? Explain in words how you know.

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ASSIGNMENT DUE WED/THU, AUG 31/SEP 1, 2016

Unit 1, Chapter 1 - The Language of Algebra

For the problems below, make a table in the space provided.

1) The product of two positive integers is 24. Make a table to find out all of the possible values for the sum of the two numbers.

2) You draw two playing cards from a deck. The possible suits that you can draw are Spades, Hearts, Diamonds, and Clubs. Make a table to list all possible combinations of suits that you can draw.

For the following problems, make a plan to solve them (use the four steps for solving word problems to guide you) then show how you solve them.

3) Raj made some money by mowing lawns. He took half of what he had earned and went to the store to buy Blu-Ray movies. The Blu-Rays cost a total of \$36, and when he got home, he had \$7 left. How much did Raj earn from mowing lawns this week?

4) To catch a 7:30 AM bus, Jeanette needs 30 minutes to shower and get dressed, 15 minutes to eat breakfast, and 10 minutes to walk to the bus stop. What is the latest time that Jeanette can wake up and still have time to catch the bus?

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7th Grade Math Honors

ASSIGNMENT DUE FRIDAY, SEPTEMBER 2, 2016

Unit 1, Chapter 1 - The Language of Algebra

For the following problems, fill in the blanks of the table of ordered pairs.

1) In every quart of liquid, there are four cups.

Quarts	Cups
1	
	8
	12
4	
	20

2) A pizza at a pizza shop costs \$7 without toppings. Each topping you add will cost an additional \$2.

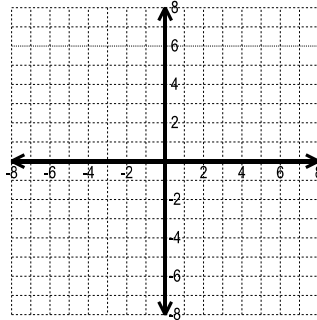
Toppings	Cost
0	\$7
1	
2	
	\$15
	\$19

3) A taxi service charges a base rate of \$2.45, then charges 75 cents per mile that you ride.

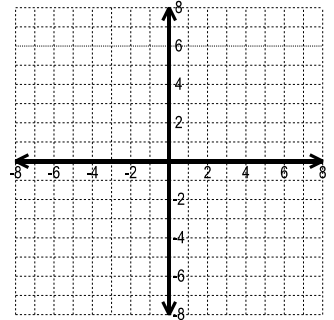
Miles	Cost
0	\$2.45
1	
	\$4.70
5	
10	

Graph each coordinate below on the given coordinate grid.

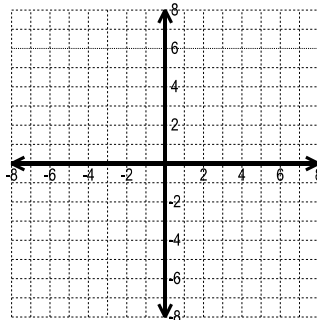
4) (0, -3)



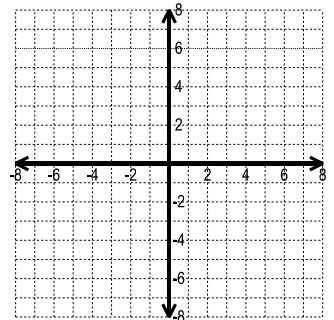
5) (1, -5)



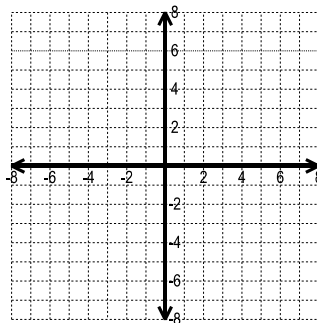
6) (7, 1)



7) (-5, 0)



8) (-2, -2)



9) (-4, 4)

