

Name: _____ Period: _____

Week 1 Homework Packet – 7th Grade Math Honors

SCORE
/ 4

WEEK SCORE
/ 8

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ASSIGNMENT DUE WED/THU, AUGUST 10/11, 2016

Unit 1, Chapter 1 – The Language of Algebra

For problems 1–4, use the order of operations to evaluate each expression. Write each step on a separate line to show each step. Also on each line, write out which step of the order of operations you are doing. An example problem has been done for you.

Ex.) Evaluate: $3 \times (4 - 2) + 5$

Step 1: $3 \times 2 + 5$

Step 2: $6 + 5$

Step 3: 11

Grouping

Multiplication

Addition

1) Evaluate: $4(6 + 3)$

2) Evaluate: $3 + 6 \cdot 2$

3) Evaluate: $4^2 + 10 \div 5$

4) Evaluate: $(7 - 5)^3 + 8 \cdot 3$

You will use the problem below to answer questions 5–8.

On a farm, there are 11 chickens and 8 cows. If all of the chickens have two legs and all of the cows have four legs, how many total legs are there on the farm, counting only the chickens and cows?

5) Understand: In your own words, describe what is being asked in this problem.

6) Plan: What are the important parts of this problem? What do you think you need to do to solve it?

7) Solve: In the space below, show how you solve the problem.

8) Check: Does your answer make sense? How do you know? What would be an example of an answer that doesn't make sense?

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/4

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ASSIGNMENT DUE FRIDAY, AUGUST 12, 2016

Unit 1, Chapter 1 - The Language of Algebra

A football team needs to gain ten yards in four plays or they lose the football. On their first play, they gain four yards. On their second play, they lose five yards. On their third play, they gain eight yards.

1) In the space below, draw a picture or diagram to illustrate what is going on in the scenario above.

2) How many total yards has the team gained? Show how you set up the problem.

3) How many more yards does the team need to gain on their final play so that they don't lose the football? Show how you set up the problem.

In the 1996 Summer Olympic Games in Atlanta, Georgia, American Lance Deal finished in second place in the men's hammer throw. Deal's best throw was 81.12 meters. The winner was the Hungarian, Balazs Kiss, whose best throw was 81.24 meters.

4) By how many centimeters did Kiss win the event? (Remember, one meter is 100 centimeters) Show how you set up the problem.

5) In one inch, there are 2.54 centimeters. By how many inches (rounded to the nearest inch) did Kiss win the event? Show how you set up the problem.

The table below shows the number of calories burned per hour by doing various activities. Use this table to solve problems 6–8. Show all work for each problem.

6) Michelle bowled for two hours with friends. How many calories did she burn?

Calories Burned per Hour	
Activity	Calories
Bowling	219
Hiking	438
Inline Skating	548
Jogging	526

7) Devonte decided to go hiking. He found a hiking trail and hiked for two hours. He then realized that he had a lot of energy, so he started jogging. He jogged for a total of one hour. How many calories did he burn in total?

8) How many more calories can someone burn in one hour by inline skating than by bowling?