Name: _____   Date: _____ Block: ____

Algebra 1- Week 4 Homework

Monday-

1. The problems below look very similar, but each has a different answer. Solve each below, then draw a visual model or a number line that will justify your response.	
a) $-4 + 9$	**b)** $4 + 9$
c) $4 - 9$	**d)** $-4 - 9$
2. Vernon solved the problem, -50 + 75, and got -25 as his response. Is his response correct? If not, explain what you would say to him to help him understand his mistake.	

_____

_____

_____

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Tuesday-
1. When you multiply or divide integers with different signs the resulting answer will always be _____.

2. When you multiply or divide integers with the same signs the resulting answer will always be _____.

3. Are the statements made in #1 and #2 also true for integer addition and subtraction? Why or why not? Justify your response below with an example.

4. If I multiply four negative integers together the product will be _____. If I multiply three negative integers together the product

   will be _____. Justify your response below.

Wednesday-
1. Evaluate the expression when a = -5
   $$a^2 + 4a + 12$$

2. Evaluate the expression when a = 10 and b = 6
   $$(a-b)^3 - a + 2b$$

3. $(-4) \cdot (9/10) \cdot (5) \cdot (-3) =$

4. $-\sqrt{121} + \sqrt{49} + \sqrt{169}$

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Thursday-

- Allen is on the football team this year but he has poor time management skills. His mother told him that he is off the team if earns anything less than a C- in school. On his first math quiz he earned a 90, then he earned an 86 and an 82 on his next two quizzes. If his quiz grades continue at this rate, what will his quiz grade be after the 8th quiz? Will he still be on the team?

    $a_n =$

- A culture of bacteria doubles every 2 hours. If there are 500 bacteria at the beginning, how many bacteria will there be after 24 hours?

    $a_n =$

- The sum of the interior angles of a triangle is 180°, of a quadrilateral is 360° and of a pentagon is 540°. Assuming this pattern continues, find the sum of the interior angles of a dodecagon (12 sides)

    $a_n =$

Friday- Test Review! No homework!