

Algebra I Homework: Week of Sept 5-7

Wednesday Sept 5, 2007

1. Get Syllabus Signed. NOTE: You can download the homework at www.geocities.com/embracciodieta (both this sheet as well as the homework sheet for tonight)
2. Get all class materials. Be sure to come to class every day with a notebook, pen/pencil
3. Complete the integer worksheet that was given out in class.

Thursday Sept 6, 2007

1. Evaluate each of the following without using a calculator.
 - a. $\frac{-12(2)}{-3(-4)}$
 - b. $\frac{7}{8} - \frac{1}{3}$
 - c. $\frac{8}{9} \div \frac{5}{6}$
 - d. $3\frac{1}{2} + 6\frac{2}{3}$
 - e. $(2.3)(4.1)$
1. Which gas tank measurement indicates the tank with the greatest amount of fuel? (*Multiple Choice*)
 - a. $\frac{2}{3}$ full
 - b. $\frac{3}{5}$ full
 - c. $\frac{5}{8}$ full
 - d. $\frac{1}{2}$ full
2. Express the fraction $\frac{5}{8}$ as a decimal (rounded to the nearest ten hundredth)
3. Which expression has the least value? 5^1 or 0^6 or 5^0 or 2^2
4. Find the area of a rectangle given its perimeter is 130 ft and its length is 25 ft.
5. Find the difference between the smallest three digit whole number and the largest even two digit whole number.
6. In the following inequality, $\frac{5}{7} < x \leq 0.75$, which of the following numbers could replace the variable x to make a true statement? (*Multiple Choice*)
 - a. $\frac{9}{12}$
 - b. $\frac{1}{3}$
 - c. 0.47
 - d. $\frac{7}{3}$
 - e. $\frac{3}{5}$

Friday, Sept 7, 2007

1. Evaluate each of the following without the use of a calculator.
 - a. $24 \div 4 \cdot 2$
 - b. $4[-2(3) - 8 \div 4]$
 - c. $-2[3 + (-4 + 2)]$
 - d. $-4[8 - (2 + 10 \div 2) - 3]$
 - e. $-(-10 - 2) + (8 - 4) / 2$
2. Simplify the following expression: $576 \div 6(15 - 7)$
3. A right triangle has one leg that measures 12 and a hypotenuse that measures 13. Find the length of the missing leg.
4. Given rectangle ABCE whose width measures 15 feet and whose length measures 40 feet with segment DE measuring 20 feet.
 - a. Find the length of segment AD
 - b. Find the perimeter of quadrilateral ABCD
 - c. Find the area of triangle ADE
 - d. What type of quadrilateral is figure ABCD?
 - e. Find the number of sq. ft. in the area of the striped region

