

Pre-Algebra Homework 6

- Write the decimal:
 - twenty two hundredths
 - the part of a decade that is represented by a year
 - thirty and two hundred twenty-five thousands
- Write in the order from least to greatest:
 - 4.16, 3.16, 4.26
 - 642.3, 641.3, 642.3
 - 5.6642, 566.42, 5664.2, 56.642
- Round...
 - 4.79 to the nearest tenth
 - 0.316 to the nearest hundredth
 - 558.81 to the nearest whole number
- The qualifying time for entrants in a 6 mile race is 51.6 minutes. One runner's time is 55.5 minutes.
 - By how much does the runner need to improve their time in order to qualify?
 - How long does the runner take to run a single mile?
 - If another runner takes 9.41 minutes to run each mile, will they qualify?
- Ellen wanted to buy the following items: A DVD player for \$49.95, a DVD holder for \$19.95 and a personal stereo for \$21.95.
 - Estimate whether Ellen will have enough money to buy all three items if she has \$100 with her?
 - Calculate the change from \$100 that she will receive.
- A golf shop pays its wholesaler \$40 for a certain club, and then sells it to a golfer for \$75. What is the percentage markup?
- Your friend diets and goes from 125 pounds to 110 pounds. What was her percentage weight loss?
- Steven invested \$5000 for two years. For the first year, the rate of interest was 7% and the second year it was 8.5%. How much interest did he earn at the end of the two year period? Interest at the end of the first year

Solve:

1. $-2(x + 4) = x - 1$

2. $\frac{1}{3}(6x - 15) = 10$

3. $-(2x - 4) = 4x + 8$

4. $-3x + 6 < 24$

Translate into an equation and solve:

1. Ann brought three grapefruits to the party. Bobby bought three more than twice the number Ann brought. How many grapefruits were there all together?
2. Room temperature is 70 degrees Fahrenheit. Water must be kept at least 3 degrees less than half of room temperature in order to stay frozen. Solve for the freezing temperature of ice.
3. A garden has a perimeter of 64m. If the width of the garden is one half of the length, solve for the length and width of the garden.