1.	A 7/16 inch-long nail is used in a construction project. What is the length of the nail written as a decimal?  a. 0.4375  b. 2.2857  c. 0.5  d. 0.1875
2.	Solve $x^2 = 9/49$ a. $3/49$ b. $\pm 3/7$ c. $\pm 9/7$ d. $\pm 3/49$
3.	There are 26.2 miles in a marathon. What is this number written as a fraction?  a. 26 2/5 miles  b. 26 2/ miles  c. 26 1/5 miles  d. 26 miles
4.	The average score on a math test was $85.\overline{1}$ Write the average score as a fraction.
5.	A baseball pitcher has pitched 56 2/3 innings this season. What is the number of innings written as a decimal?
6.	The $\sqrt{2}$ is between 1.4 and 1.5. How could you find a better estimate of $\sqrt{2}$ ?
7.	Find a better estimate of $\sqrt{2}$ . Draw a number line. Locate and label your estimate on the number line. $\sqrt{2}$ is between and, so $\sqrt{2}$

8.	Label each number rational or irrational.
1/3	-15.3 11 ½ √5
9.	What is the difference between a rational and an irrational number?
10.	An artist wants to frame a painting with an area of 400 square inches. He needs to know the length of
	wood to cut for each side in order to make a frame for the painting.
a.	If x is the length of one side of the square, what equation can you set up to find the length of a side?
b.	Solve the equation you wrote in part a. How many solutions does it have?
c.	Do all the solutions you found in part b make sense given the context of this problem? Explain your

answer.