Math 9

1a.1 Practice

1. Are the following numbers part of the set of whole numbers (W), integers (I), Rational numbers (Rat), and/or Irrational numbers (Irr). Give all that apply.

a. 0.013

b. 0.666.....

c. 0.212121

d. $\sqrt{7}$

e. $\sqrt[4]{_{\sqrt{81}}}$

d. $^{51}/_{17}$

2. Arrange the numbers from smallest to largest:

$$3.4, -\frac{11}{3}, -3.4, -3.5$$

3. Place the following numbers on a number line:

$$3.1, -\frac{13}{12}, \sqrt{6}, -\sqrt{16}, 2\frac{5}{8}$$

4. Express each term as a fraction

a. 0.17

b. $0.\overline{5}$

c. $1^2/_3$

5. List all integers greater than -4 and less than $0.5\,$

1a.2 Practice

- 1. Use factoring to find the square root of the following numbers.
- 2. Use factoring to solve the equation.

a. $x^2 = 36$

b. x² =121

c. $x^2 + 1 = 17$

- 3. Find the square root to the nearest hundredth using a calculator.
 - a. $\sqrt{32}$
- b. $\sqrt{101}$
- c. $\sqrt{0.25}$
- 4. Solve the equation to two decimal places using a calculator.
 - a. $x^2 = 39$ b. $x^2 = 50$

 $x^2 = 0.00625$

- 5. Find the missing side of the right triangle:
 - a. a 8, b = 10

b. a = 12, c = 13

6. What is the length of one side of a square with area = 55 cm^2 ?

7. What is the straight line distance between the two opposite corners of a square with side length = 28.4 m?

- 8. What is the radius of the circle?
 - a. $A = 64.5 \text{ cm}^2$

b. $A = 1.005 \text{ m}^2$