## 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:

$$
3.4,-11 / 3,-3.4,-3.5
$$

3. Place the following numbers on a number line:

$$
3.1,-13 / 12, \sqrt{6},-\sqrt{16}, 25 / 8
$$

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. $\mathrm{x}^{2}=36$
b. $x^{2}=121$
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. $a \operatorname{b}, b=10$
b. $a=12, c=13$
6. What is the length of one side of a square with area $=55 \mathrm{~cm}^{2}$ ?
7. What is the straight line distance between the two opposite corners of a square with side length $=28.4 \mathrm{~m}$ ?
8. What is the radius of the circle?
a. $A=64.5 \mathrm{~cm}^{2}$
b. $A=1.005 \mathrm{~m}^{2}$
