**Grade 9 Math Section 1.1-1.2 Assignment Practice Sheet**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is $\left(\frac{7}{5}\right)^{2}$? \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

2. Determine $\sqrt{\frac{36}{81}}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Square $\frac{16}{25}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Find the square root of 0.0064 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Determine the number whose square root is $\frac{1}{3}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Estimate $\sqrt{\frac{39}{71}}$ using benchmarks. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Estimate $\sqrt{23.6}$ to 1 decimal place. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Determine a number that has a square root between 3.7 and 3.8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Is $\frac{50}{98}$ a perfect square? Show why or why not.

10. Estimate $\sqrt{0.5}$ to 2 decimal places. Show all steps.

11. Determine if each number is a perfect square:

 A. $\frac{16}{35}$ B. $\frac{8}{50}$ C. $0.16$ D. $0.025$

12. A square garden has an area of $7.84 m^{2}$.

 A. What is the length of 1 side?

 B. What is the perimeter of the garden?

 C. If fencing costs $2.50 per metre, how much would it cost to fence the garden?

13. Place each square root correctly on the number line below:

 $\sqrt{2.5}$, $\sqrt{20.25}$., $\sqrt{\frac{25}{16}}$ , $\sqrt{\frac{144}{9}}$ , $\sqrt{5}$

 0 1 2 3 4 5