C:\Users\Nindi\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\EJRV5VSP\MC900290682[1].wmfAssignment #2: Square Roots /41

1. Determine whether each rational number is a perfect square. If it is a perfect square, write the product as an expression of two equal rational factors. *(8 marks)*

**a)** 0.9 YES NO \_\_\_\_\_\_\_\_\_\_

**b)**  YES NO \_\_\_\_\_\_\_\_\_\_

**c)**  YES NO \_\_\_\_\_\_\_\_\_\_

**d)** 0.81 YES NO \_\_\_\_\_\_\_\_\_\_

**e)**  YES NO \_\_\_\_\_\_\_\_\_\_

**f)** 1.44 YES NO \_\_\_\_\_\_\_\_\_\_

**g)** 0.0001 YES NO \_\_\_\_\_\_\_\_\_\_

**h)**  YES NO \_\_\_\_\_\_\_\_\_\_

2. CIRCLE the numbers below that are perfect square? *(4 marks)*





**g)**

**h)**

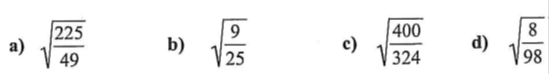
**f)**

**e)**

3. Calculate the number whose squre root is: *(4 marks)*



4. Determine the value of each square root to the nearest tenth *(8 marks)*





**e)**

**h)**

**g)**

**f)**

5. Determine the value of each square root *(4 marks)*



6. The area of a square garden is 12.25 m2. *(2 marks)*

1. Determine the perimeter of the garden.

12.25m2

1. The owner decides to put a gravel pathway around the garden. This reduces the area of the garden by 4.96 m2. What is the new side length of the garden?



4.96 m2

**7.** Calculate each square root to the specified number of decimal places. *(3 marks)*

Example:  to the nearest hundredth, 7.48

**a)**  to the nearest tenth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b)**  to the nearest hundredth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c)**  to the nearest thousandth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Evaluate to the nearest tenth. Show your work. *(4 marks)*

**a)**  **b)** 

**c)**  **d)** 

**9.** Calculate the side length (to the nearest tenth) of each square from its area. Show your work**.**

*(4 marks)*

**a)** 1.21  **b)** 625 

**c)** 0.09  **d)** 0.36 