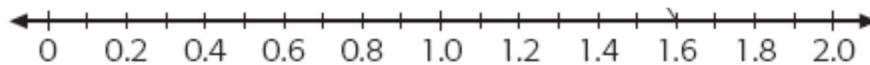


**Unit 2 Rational Numbers Check Up #2**

1. The water level in a full tank drops by  $\frac{1}{4}$ . Katie uses  $\frac{3}{5}$  of the remaining water. What rational number describes the final water level? (2 marks)
  
2. In Flin Flon, Manitoba, the mean of the maximum and minimum temperatures one day was  $-14.8^{\circ}\text{C}$ . The maximum temperature was  $-11.5^{\circ}\text{C}$ . What was the minimum temperature? (2 marks)
  
3. Using the following list: (3 marks)
  - a. Circle the perfect squares.
  - b. Determine the square root of the circled numbers.  
 $20.25, \frac{125}{64}, 16.9, 3.24, 0.9, \frac{196}{49}, 99$
  
4. Find 3 perfect squares that are greater than 0.07 but less than 0.27. (1 mark)
  
5. Determine each square root to one decimal place and label it on the number line provided. (3 marks)
 

W.  $\sqrt{1.21}$                   X.  $\sqrt{0.6400}$                   Y.  $\sqrt{0.30}$                   Z.  $\sqrt{0.90}$



6. Explain how you can determine the approximate value of  $\sqrt{75}$  without using a calculator. (1 mark)