

# MTH 202 - Quiz 1

11 September 2015

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

Show all your work to receive full credit on the following problems; carefully organize your solutions so that the work is clear. No calculators or other electronic devices are allowed on this quiz.

1. (12 points) Give a complete Teacher's Solution (with bar diagram(s) and units) to the following problem: Hannah's fishbowl can hold 900 mL of water and Julie's can hold 20% more than Hannah's. Does a full 2-liter bottle of water have enough to fill both fishbowls? If so, how much water will be left in the bottle? If not, how much more do they need?

2. ( $3 + 3 + 3 = 9$  points) Complete the following conversions.

(a)  $0.288 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

(b)  $3 \text{ miles} = \underline{\hspace{2cm}} \text{ ft}$

(c)  $72.8 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$

3. (4 points) Explain what the difference between  $\overleftrightarrow{PQ}$  and  $\overline{PQ}$  is.