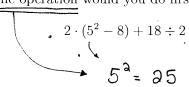# Math 099 - Quiz 1

August 27, 2018

Name __key__

Score _____

Show all work to receive full credit. Supply explanations when necessary.

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1. (2 points) Which <u>specific operation</u> would you do first in the following expression?

$$2 \cdot (5^2 - 8) + 18 \div 2$$

$$5^2 = 25$$

2. (6 points) Evaluate each expression. Show your work.

   (a) $8 - 3 \cdot (-2)$

   $$= 8 - (-6) = \boxed{14}$$

   (b) $(2-2) - 2 - 2 - [2 \times (2-2)]$

   $$0 - 2 - 2 - (2 \times 0) = -2 - 2 - 0 = -2 - 2 = \boxed{-4}$$

   (c) $\dfrac{2 \cdot (18/3)}{(2+1)^2 + 3} = \dfrac{2 \cdot 6}{3^2 + 3} = \dfrac{12}{9+3} = \dfrac{12}{12} = \boxed{1}$

3. (1 point) Give an example of a whole number that is not a natural number.

   THE ONLY SUCH NUMBER IS $\boxed{0.}$

4. (1 point) Give an example of a rational number that is not an integer.

   $$\boxed{\dfrac{1}{2} = 0.5}$$