

Math 099 - Quiz 3

February 26, 2019

Name key

Score _____

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

1. (2 points) **Which specific operation** would you do first in the following expression?
(You don't need to compute the value. Just tell which operation.)

$$8 - 2 + 10 \div 5 \times 2.$$



$10 \div 5$ COMES FIRST

$$10 \div 5 = 2$$

2. (2 points) **Which specific operation** would you do first in the following expression?
(You don't need to compute the value. Just tell which operation.)

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



5^2 COMES FIRST

$$5^2 = 25$$

3. (6 points) Evaluate each expression. Show your work.

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

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

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

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

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