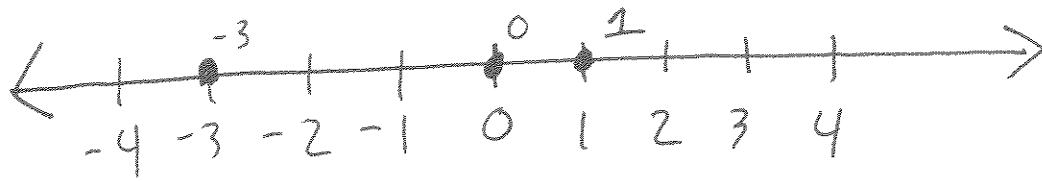# Math 1010 - Quiz 1

University of Utah

Fall 2009

Name: Solutions

1. (3 points) Draw a number line below, and plot and label the points −3, 0, and 1.

Evaluate the expressions in the next three problems.

2. (3 points) $5 - (-12) = ?$

$$5 - (-12) = 5 + 12 = 17$$

3. (3 points) $\left(-\dfrac{4}{9}\right)\left(\dfrac{3}{2}\right) = ?$

$$\left(-\dfrac{4}{9}\right)\left(\dfrac{3}{2}\right) = \left(-\dfrac{2}{3}\right)\left(\dfrac{1}{1}\right) = -\dfrac{2}{3}.$$

4. (4 points) $2\frac{1}{4} + 5\frac{1}{5} = ?$

$$2\frac{1}{4} + 5\frac{1}{5} = \frac{9}{4} + \frac{26}{5} = \frac{45}{20} + \frac{104}{20} = \frac{149}{20} = 7\frac{9}{20}$$

Note - Either $\frac{149}{20}$ or $7\frac{9}{20}$ would be accepted as a correct answer.

5. (2 points)

What property of real numbers is expressed by the equation:

$$a(b + c) = ab + ac$$

The *distributive property*.