

**Unit 2 Rational Numbers Check Up #1**

1. List three different examples of numbers that are: (2 marks)

a. Rational

b. Irrational

2. Insert  $<$ ,  $>$ , or  $=$  to make each expression true. (2 marks)

a.  $\frac{13}{20} \square 0.65$

c.  $-2.2 \square -\frac{11}{5}$

b.  $-\frac{5}{6} \square -\frac{5}{7}$

d.  $4.4\bar{6} \square 4.46$

3. Order the following rational numbers from least to greatest. (2 marks)

$$-\frac{3}{8}, 1.\bar{8}, \frac{9}{5}, 0.35, -1$$

4. Indicate the operation that should be performed **first** in each expression. (2 marks)

a.  $3.1 - [2.6 + (-1.9)] \times (-4)$

b.  $\frac{4}{3} + \frac{1}{4} \div (-2) \times (4)$

5. Indicate the operation that should be performed **last** in each expression. (2 marks)

a.  $3.1 - [2.6 + (-1.9)]^3 \times (-4)$

b.  $(-6.3 + 1.4) \div (-2) ' (2.1)$

6. Simplify each expression. (4 marks)

a.  $-5 \div ((-1)^4 + 3^2)(-4 - 4)^2$

b.  $\frac{2}{3} + \left(-\frac{3}{4} + \frac{1}{5}\right)^2$