Extra Practice 6

Lesson 3.6: Order of Operations with Rational Numbers

1. Evaluate.

a)
$$4.5 + 5.1 \div 1.7$$

b)
$$-5.8-3.1\times0.5$$

Evaluate.

a)
$$\frac{2}{3} \times \left(-\frac{1}{2}\right) + \frac{5}{6}$$

b)
$$\frac{3}{8} - \frac{9}{4} \div \left[\left(-\frac{5}{4} \right) + \left(-\frac{1}{10} \right) \right]$$

- A formula for the area of a trapezoid is $A = a\left(\frac{b+c}{2}\right)$ where b and c are the lengths of the parallel sides and a is the perpendicular distance between these sides. Use the formula to determine the area of a trapezoid with: a = 3.5 cm, b = 5.7 cm, c = 8.1 cm.
- Evaluate.

a)
$$-4\frac{2}{3} \div \left[\left(-\frac{1}{3} \right) + 4\frac{1}{6} \right] + \left(-3\frac{2}{5} \right)$$

a)
$$-4\frac{2}{3} \div \left[\left(-\frac{1}{3} \right) + 4\frac{1}{6} \right] + \left(-3\frac{2}{5} \right)$$
 b) $1\frac{5}{9} - \left(-2\frac{1}{6} \right) + \left[4\frac{1}{4} + \left(-3\frac{1}{2} \right) \right]^2 \div \frac{2}{5}$

Evaluate this expression. Round the answer to the nearest hundredth.

$$\frac{9.6 \times 12.6 - 5.1 \div (-7.4) - 0.6}{(2.9) \cdot 1.2}$$

$$(-2.9) \div 1.3 - (-6.5)$$