

Name: _____

Block: _____

3.6 Practice – Order of Operations with Rational Numbers

1. Evaluate.

a) $4.5 + 5.1 \div 1.7$

b) $-5.8 - 3.1 \times 0.5$

2. Evaluate.

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

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

3. 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.

4. Evaluate.

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

b) $\left(-\frac{7}{10}\right) \div \left(-\frac{2}{5}\right) - \left(-\frac{1}{4}\right) \times \frac{1}{2}$

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

$$\frac{9.6 \times 12.6 - 5.1 \div (-7.4) - 0.6}{(-2.9) \div 1.3 - (-6.5)}$$

3.6 Practice - Answers

- a) 7.5
b) -7.35
- a) $\frac{1}{2}$
b) $2\frac{1}{24}$
- 24.15 cm²
- a) $-\frac{5}{4}$ or $-1\frac{1}{4}$
b) $\frac{15}{8}$ or $1\frac{7}{8}$
- 28.35