

Math 94 Review for Chapter 1 Quiz 1

Evaluate the following. Simplify each answer.

1. $\frac{8}{5} \cdot \frac{15}{18}$

2. $\frac{7}{4} + \frac{3}{10}$

3. $6 \div \frac{3}{4}$

4. In the following set of numbers: $\left\{ 0, -\frac{2}{5}, \sqrt{6}, -9, 7, \frac{1}{100} \right\}$,

(a) List the integers.

(b) List the rational numbers.

Evaluate (Simplify any fractions in your answers):

5a) $-30 + 15$

(b) $-8 + (-8)$

6a) $-\frac{1}{4} - \frac{1}{2}$

(b) $\frac{1}{3} - \frac{3}{4}$

7a) $12 - (-4)$

(b) $-4 - 4$

(c) $-3 - (-8)$

Find each product or quotient:

8a) $(-5)(-2)(-3)$

(b) $(2)^3(-3)^2$

(c) $\frac{(-2)^3}{(-3)^3}$

[OVER]

9a) $4 \div \left(-\frac{4}{3}\right)$

(b) $\left(\frac{-2}{3}\right)\left(\frac{5}{8}\right)(-4)$

10a) Evaluate: $(-2)^3 - 8 \div 4$

(b) Evaluate: $\frac{30 - (-20)}{-15}$

11. Evaluate: $\frac{45 + (2 \cdot 3 - 11)}{10 - 2 \cdot 15}$

Evaluate each expression for the given value of the variable or variables:

12. $2x^2 - 4x$ for $x = -5$

13. $x^2 - y^2$ for $x = -2$, $y = -1$