

Math 35 MW Practice Test 3

1. Write as an improper fraction: $4\frac{3}{8}$

2. Write as a mixed number: $\frac{100}{9}$

3. Simplify:

a. $\frac{-15}{3}$

b. $\frac{7a^3}{35a^3b}$

c. $\frac{-3}{8} \div (-6)$

d. $\frac{7}{x^2} \cdot \frac{x}{21}$

e. $\frac{2}{3} - \frac{4}{5}$

f. $\frac{x}{5} + \frac{3}{10}$

g. $\sqrt{\frac{49}{16}}$

h. $4\frac{2}{5} - 1\frac{1}{2}$

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

j. $\frac{2}{5} + \frac{3}{10}(-4)$

4. Solve:

a. $-4 = \frac{4}{5}w$

b. $3x - \frac{1}{2} = \frac{1}{2}$

5. Find the volume of a box with width 2 inches, length $2\frac{2}{3}$ inches and height $3\frac{3}{4}$ inches.

6. Evaluate:

a. $(-13)(.11)$

b. $(42.5)(1.28)$

c. $\sqrt{1.21}$

d. $\frac{-0.00015}{-0.003}$

e. $11 - 3.06 \div (3.95 - .35)$

7. Write as a fraction or mixed number: 2.015

8. Round 0.98 to the nearest tenth.

9. Round \$12.45 to the nearest dollar.

10.

a. $-4.2x = 0$

b. $0.4x + 6.8 = 1.6$

11. A book of 12 tickets costs \$35.89. What is the cost per ticket, to the nearest cent?

12. Write as a decimal: $2\frac{7}{8}$

13. Write as a fraction in lowest terms:

a. 8 hours to 3 days

b. 96 children in 40 families

14. True or false: $\frac{47}{10} = \frac{98}{20}$

15. Solve:

a. $\frac{16}{x} = \frac{12}{15}$

b. $\frac{5}{8} = \frac{x}{20}$

16. The ratio of pets to humans in my house is 2 to 1. If there are 4 pets, how many humans are there?