

Math 35 Friday Practice Test 3

1. Simplify:

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

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

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

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

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

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

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

2. Solve:

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

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

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

4. Evaluate:

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

b.  $(42.5)(1.28)$

- c.  $\sqrt{1.21}$
- d.  $\frac{-0.00015}{-0.003}$
- e.  $11 - 3.06 \div (3.95 - .35)$
5. Write as a fraction or mixed number: 2.015
6. Round 0.98 to the nearest tenth.
7. Round \$12.45 to the nearest dollar.
8. Solve:
- a.  $-4.2x = 0$
- b.  $0.4x + 6.8 = 1.6$
9. A book of 12 tickets costs \$35.89. What is the cost per ticket, to the nearest cent?
10. Write as a decimal:  $2\frac{7}{8}$
11. Write as a fraction in lowest terms:
- a. 8 hours to 3 days
- b. 96 children in 40 families
12. True or false:  $\frac{47}{10} = \frac{98}{20}$
13. Solve:
- a.  $\frac{16}{x} = \frac{12}{15}$
- b.  $\frac{5}{8} = \frac{x}{20}$
14. The ratio of pets to humans in my house is 2 to 1. If there are 4 pets, how many humans are there?