

NAME _____

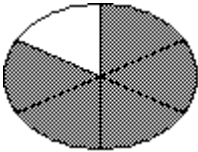
MATH 095
CHAPTER 4 REVIEW
SHOW ALL WORK

Identify the numerator and the denominator of the fraction.

1) $\frac{1}{7}$

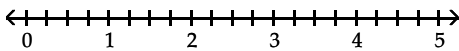
Write a fraction to represent the shaded area of the figure.

2)

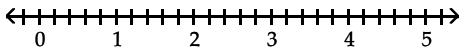


Graph the fraction on a number line.

3) $\frac{1}{4}$



4) $\frac{8}{5}$



Simplify by dividing.

5) $\frac{-50}{50}$

6) $\frac{-24}{1}$

7) $\frac{-29}{0}$

Write the fraction as an equivalent fraction with the given denominator.

8) $\frac{6}{13}$; denominator of 26

9) 1; denominator of 35.

Write the prime factorization of the number.

10) 231

11) 700

Simplify the fraction.

12) $\frac{35}{42}$

Solve. Write the answer in simplest form.

- 13) There are 9000 spectators at a ball game. If 5400 are females, what fraction of the spectators are females?

Perform the indicated operation. Write the answer in simplest form.

14) $-\frac{4}{5} \cdot \frac{1}{7}$

15) $56x^2 \cdot \frac{5}{8}$

16) $\frac{x}{y^2} \cdot \frac{y^4}{x^4}$

Evaluate.

17) $\left(\frac{1}{5}\right)^3$

Perform the indicated operation. Write the answer in simplest form.

18) $-\frac{8}{11} \div \frac{4}{15}$

19) $\frac{10x^2}{35y} \div \frac{25x}{49y}$

Decide whether the given replacement value is a solution of the given equation.

20) Is $\frac{5}{24}$ a solution to $3x = \frac{5}{8}$?

Solve. Write the answer in simplest form.

21) How many $\frac{1}{6}$ -ounce doses are available in a 12-ounce container of medicine?

Add or subtract as indicated. Write the answer in simplest form.

$$22) \frac{4}{8} + \frac{1}{8} + \frac{2}{8}$$

Solve. Write the answer in simplest form.

$$23) 7x + \frac{8}{11} - 6x = \frac{4}{11} + \frac{3}{11}$$

Add or subtract as indicated. Write the answer in simplest form.

$$24) \frac{1}{11} + \frac{5}{6}$$

$$25) \frac{7}{12} - \frac{5}{14}$$

Insert < or > to form a true sentence.

$$26) -\frac{17}{18} \text{ ____ } -\frac{11}{14}$$

Solve. Write the answer in simplest form.

$$27) x + \frac{5}{8} = -\frac{3}{4}$$

Simplify the complex fraction.

$$28) \frac{\frac{4}{17}}{\frac{1}{17}}$$

$$29) \frac{\frac{2}{3} - \frac{6}{7}}{\frac{7}{4} + \frac{4}{3}}$$

Simplify.

$$30) \left(\frac{3}{4}\right)^2 \div \left(\frac{3}{4} - \frac{1}{12}\right)$$

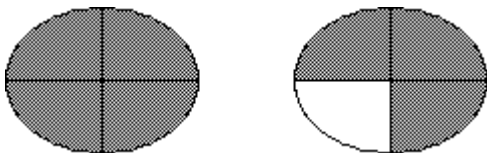
Solve the equation.

31) $\frac{1}{3}k = 6$

32) $-\frac{1}{2}x = \frac{7}{10} - \frac{9}{4}$

Represent the shaded area in the figure group with a mixed number.

33)



Write the mixed number as an improper fraction.

34) $5\frac{4}{9}$

Write the improper fraction as a mixed or whole number.

35) $\frac{34}{3}$

Perform the indicated operation. Write the answer as a mixed number in simplest form.

36) $3\frac{6}{7} \cdot 2\frac{5}{6}$

37) $4\frac{6}{7} \div 2\frac{3}{4}$

Add or subtract as indicated. Write the answer as a mixed number in simplest form.

$$38) 6\frac{2}{7} + 1\frac{3}{7}$$

39)

$$\begin{array}{r} 9\frac{3}{4} \\ - 3\frac{5}{12} \\ \hline \end{array}$$

Perform the indicated operation. Write the answer as a mixed number in simplest form.

$$40) -35\frac{5}{8} - (-38\frac{1}{4})$$