

Simplify Expressions with Fractions 1

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

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

1) $\frac{x}{3} + \frac{x}{9} + \frac{2x}{27}$

1) _____

2) $\frac{1}{6} + \frac{1}{12} + \frac{n}{24}$

2) _____

3) $\frac{3x}{7} + \frac{2x}{5} - \frac{5}{14}$

3) _____

4) $\frac{3}{20} + \frac{4}{5x}$

4) _____

5) $\frac{-13b}{15} - \frac{14}{17}$

5) _____

6) $\frac{7y}{56} - \frac{3}{8}$

6) _____

7) $5 - \frac{y}{11}$

7) _____

8) $\frac{3p}{14} + \frac{9}{10}$

8) _____

9) $\frac{7x}{12} + \frac{4x}{9}$

9) _____

10) $\frac{13r}{17} + \frac{5}{19}$

10) _____

Evaluate the expression for the given replacement values. Write the answer in simplest form.

11) $x - y$ for $x = \frac{6}{9}, y = \frac{5}{8}$

11) _____

12) $4x + y$ for $x = -\frac{3}{8}, y = -\frac{3}{16}$

12) _____

13) $x \div y$ for $x = \frac{10}{30}, y = \frac{60}{25}$

13) _____

14) xy for $x = \frac{15}{24}, y = \frac{6}{10}$

14) _____

Answer Key

Testname: EVALUATEEXPRESSIONSWITHFRACTIONS

1) $\frac{14x}{27}$

2) $\frac{6 + n}{24}$

3) $\frac{58x - 25}{70}$

4) $\frac{3x + 16}{20x}$

5) $\frac{-221b - 210}{255}$

6) $\frac{7y - 21}{56}$

7) $\frac{55 - y}{11}$

8) $\frac{15p + 63}{70}$

9) $\frac{37x}{36}$

10) $\frac{247r + 85}{323}$

11) $\frac{1}{24}$

12) $-\frac{27}{16}$

13) $\frac{5}{36}$

14) $\frac{3}{8}$