

- 1.) Write and solve an equation to solve the problems below. Write your answer in a complete sentence.
- a) A triangle has three sides. The second side is two more than double the first side and the third side is four less than the second side. The perimeter is 70 cm. How long are the sides?
- b) The length of a rectangle is three times the width. The perimeter is 64 feet. What are the length and width of the rectangle?

2.) Solve.

a) $\frac{4}{3}x + \frac{3}{2}x = \frac{17}{6}$

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

3.) Solve.

a) $-3x - 14 = 2 + 5x$

b) $3x - 3 = 2x + 2$

4.) Evaluate. Write answers in simplest form.

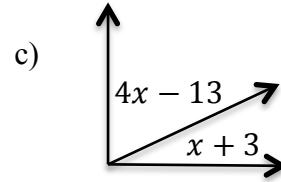
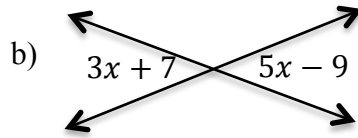
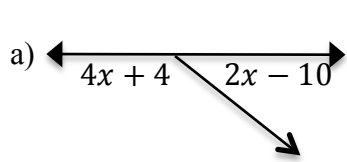
a) $\frac{7}{9} \cdot \frac{3}{11} =$

b) $1\frac{1}{2} - 5\frac{3}{5} =$

c) $-\frac{7}{12} \div \frac{21}{48} =$

d) $15\frac{7}{8} + 3\frac{5}{24} =$

5.) Write and solve an equation to find the value of x for each of the values below.

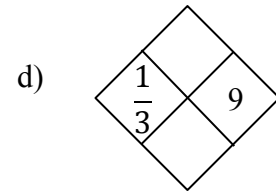
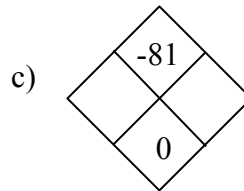
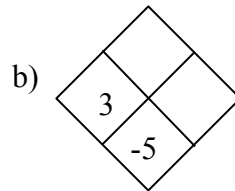
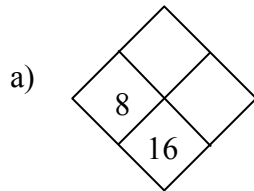


6.) Find the percent of change.

a) From \$72 to \$48

b) From 120 lbs to 90 lbs

7.) Complete each of the diamond problems below.



8.) Calculate.

a) 75% of what number is 18?

b) 24 is what percent of 40

c) What is 80% of 25?