

Proportions in Story Problems!

7th Grade Math

Name: Key

For all of the following problems, write a proportion then solve. If you only give an answer without a proportion, you will not earn points.

1. Bart Simpson paid \$54.44 for 4 skateboards. At that rate, what would 9 skateboards cost?

$$\frac{x}{9} = \frac{54.44}{4}$$

$$4x = 489.96$$

$$x = \$122.49$$

2. According to the label, there are 221 calories per Crispy Cream doughnut. How many calories are there in 7 doughnuts?

$$\frac{x}{7} = \frac{221}{1}$$

$$x = 1,547 \text{ cal.}$$

3. A man paid \$2.88 in tax for 4 shirts. At this rate, what would the tax be if he buys 11 shirts?

$$\frac{x}{11} = \frac{2.88}{4}$$

$$4x = 31.68$$

$$x = \$7.92$$

4. Chris drove 200 miles in 4 hours. At that rate, how long would it take Chris to drive 340 miles?

$$\frac{x}{340} = \frac{4}{200}$$

$$200x = 1,360$$

$$x = 6.8 \text{ hrs}$$

5. Eight out of ten fish are trout. How many trout are there out of 40 fish?

$$\frac{x}{40} = \frac{8}{10}$$

$$10x = 320$$

$$x = 32 \text{ trout}$$

6. There are 2 robins for every 5 birds. How many robins are there for 80 birds?

$$\frac{x}{80} = \frac{2}{5}$$

$$5x = 160$$

$$x = 32 \text{ robins}$$

7. Two flowers cost \$0.66. How much would 13 flowers cost?

$$\frac{x}{13} = \frac{0.66}{2}$$

$$2x = 8.58$$

$$x = \$4.29$$