

*What do you know about*

A cartoon illustration of a man with dark hair, wearing a blue suit jacket with a red collar, a white shirt, and a dark tie. He is holding a white piece of paper in his left hand and pointing with a black pen in his right hand towards a sign. The sign is rectangular with a dark blue background and a border of small, glowing yellow lights. The text on the sign is written in a white, serif font.

**Ratios &  
Rates?**

**1**

**Solve the following ratio problem: A recipe calls for 2 cups of flour for every 3 cups of sugar. If you have 6 cups of sugar, how many cups of flour do you need?**



**1**

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**4 cups  
of flour**

# 2

**Consider this table  
of equivalent  
ratios and find the  
missing values.**

<b>Quantity A</b>	<b>Quantity B</b>
<b>4</b>	<b>8</b>
<b>9</b>	
	<b>20</b>

**2**

**Consider this  
table of  
equivalent ratios  
and find the  
missing values.**

<b>Quantity A</b>	<b>Quantity B</b>
<b>4</b>	<b>8</b>
<b>9</b>	<b>18</b>
<b>10</b>	<b>20</b>

**3**

**Marissa mows lawns at a constant rate. It takes her 3 hours to mow 5 lawns. How many lawns can she mow in 8 hours?**



3

**Marissa mows lawns at a constant rate. It takes her 3 hours to mow 5 lawns. How many lawns can she mow in 8 hours?**

13  
lawns

13  $\frac{1}{3}$  lawns



**4**

**Suppose you are traveling at a constant speed of 60 miles per hour. How long will it take you to travel 180 miles?**





**4**

**Suppose you are traveling at a constant speed of 60 miles per hour. How long will it take you to travel 180 miles?**

**3  
hours**

**5**

**A car travels 280 miles in 5 hours.  
What is the car's average speed  
in miles per hour?**



5

**A car travels 280  
miles in 5 hours. What  
is the car's average  
speed in miles per  
hour?**

**56  
miles per  
hour**



**A shirt originally costs \$40. It is on sale at a 25% discount. Calculate the sale price of the shirt.**



**6**

**A shirt originally costs \$40. It is on sale at a 25% discount. Calculate the sale price of the shirt.**

**\$30**



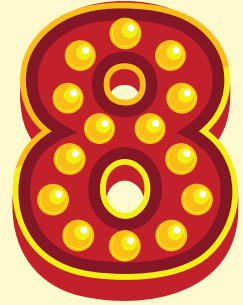
**You want to leave a 20% tip on a restaurant bill that amounts to \$75. How much should you leave as a tip?**

**7**

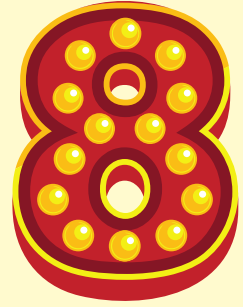
**You want to leave a  
20% tip on a  
restaurant bill that  
amounts to \$75. How  
much should you  
leave as a tip?**

**\$15**





**Lisa is planning a trip to Europe and needs to convert her travel budget from US dollars to Euros. If she has \$500, and the current exchange rate is 1 US dollar = 0.85 Euros, how much will Lisa's budget be in Euros?**



**Lisa is planning a trip to Europe and needs to convert her travel budget from US dollars to Euros. If she has \$500, and the current exchange rate is 1 US dollar = 0.85 Euros, how much will Lisa's budget be in Euros?**

**425**  
**euros**



**A map has a scale of 1 inch represents 10 miles. If two cities are 4.5 inches apart on the map, what is the actual distance between the cities in miles?**





**A map has a scale of 1  
inch represents 10 miles. If  
two cities are 4.5 inches  
apart on the map, what is  
the actual distance  
between the cities in  
miles?**

**45  
miles**

**10**

**The ratio of red marbles to blue marbles in a jar is 3:5. If there are 60 blue marbles, how many red marbles are in the jar?**

# 10

The ratio of red marbles to blue marbles in a jar is 3:5. If there are 60 blue marbles, how many red marbles are in the jar?

36  
red  
marbles

*How did you do?*



**10**

