

12/16/13

Problem Solving

Per. _____ Name: _____

1. Marlene organized a bike-a-thon to raise money for a local charity. Marlene sent 80% of the money to the charity. The bike-a-thon raised a total of \$200. How much money went to the charity?

Show your work using words and/or numbers.

2. There are 300 students in 6th grade at Jefferson Middle School. A survey shows that 70% of them are planning to attend college. How many Jefferson 6th grade students are planning to attend college?

Show your work using words and/or numbers.

3. After eating at a restaurant, you know that the bill before tax is \$54.00 and that the sales tax rate is 10%. You decide to leave a 15% tip for the waiter based on the pre-tax amount.

How much should you leave for the waiter?

Show your work using words and/or numbers.

How much would be the tax amount?

Show your work using words and/or numbers.

How much will the total bill be, including tax and tip?

Show your work using words and/or numbers.

4. The original price of a shirt was \$16. It is on sale for 25% off.

How much is the shirt after the 25% off?

Show your work using words and/or numbers.

The local tax rate is 10%.

How much would be the tax amount on the sale price (after 25% off)?

Show your work using words and/or numbers.

How much will the total bill be, including tax?

Show your work using words and/or numbers.

5. The original price of a shirt was \$25. It is on sale for 20% off.

How much is the shirt after the 20% off?

Show your work using words and/or numbers.

The local tax rate is 10%.

How much would be the tax amount on the sale price (after 20% off)?

Show your work using words and/or numbers.

How much will the total bill be, including tax?

Show your work using words and/or numbers.

_____ Name: _____

1. Derek has 12 shirts in his closet. If 2 out of every 3 of these shirts are striped, how many striped shirts does Derek have in his closet?
- A. 2
 - B. 8
 - C. 11
 - D. 18

2. The total cost for 80 students on a class trip to stay at a motel for 1 night was \$1600.
What was the cost (unit rate) for 1 student to stay at the motel for 1 night?

Show your work using words, numbers, and/or pictures.

What was the cost (unit rate) for 1 student to stay for 1 night? _____

3. Emma's family goes on a vacation. They travel 125 miles in the first 2.5 hours.
If Emma's family continues to travel at this rate, how many miles will they travel in 6 hours?

Show your work using words, numbers, and/or pictures.

How many miles will they travel in 6 hours? _____

_____ Name: _____

1. The school secretary can type an average of 12 names per minute on a class list. At this rate, what is the total number of minutes it will take the secretary to type a list of 696 names?

- A. 59 minutes
- B. 58 minutes
- C. 49 minutes
- D. 48 minutes

2. James drove 288 miles in 4 hours.

At this rate, what is the total number of hours it will take him to drive 432 miles?

Show your work using words, numbers, and/or pictures.

3. Ms. Chung had a meeting in a city 100 miles away. In the morning, she drove an average speed of 60 miles per hour, but in the evening she averaged only 40 miles per hour.

How much longer did the evening trip take than the morning trip?

Explain your reasoning.