

Applying Your Multiplication Skills


In each problem pay close attention to the language that tells you to multiply. In most cases you will be given information about one thing, and you will be asked to find information for several things.

Solve and write the correct label, such as kilometers or pounds, next to each answer.

1. One inch is equal to 2.54 centimeters. A 12-inch ruler is how many centimeters long? Round your answer to the nearest tenth.
2. Alberto earns \$9.80 an hour. If he worked 7.5 hours on Monday, how much did he earn that day?
3. One mile is equal to 1.6 kilometers. Miriam drives 25 miles to get to her job. What is the distance to her job in kilometers?
4. An airplane flew at an average speed of 386 miles per hour for 2.75 hours. How far did the airplane fly?
5. One pound is equal to 0.45 kilogram. Find the weight in kilograms of a person who weighs 160 pounds.
6. One cubic foot of water weighs 62.5 pounds. What is the weight of 16 cubic feet of water?
7. Jane earns \$14.90 for an hour of overtime work. How much does she earn for 2.3 hours of overtime work?
8. At \$13.40 a meter, how much do 4.25 meters of material cost?
9. One yard is equal to 0.914 meter. The lot where the Johnson family plans to build a house is 75 yards long. To the nearest meter (unit), what is length of the lot?

10. It costs \$0.84 per hour to run the lights in a small theater. How much does it cost to run the lights for 4.5 hours?

Read the next problems carefully to decide which operation to use.

11. What is the cost of 0.85 pound of cheese at \$5.90 per pound? Round your answer to the nearest cent.
12. In the last problem, how much change should a customer who bought the cheese receive from a \$10 bill?
13. Mike pays a commercial rate for electricity at his TV repair shop. One month Mike used 883 kilowatt-hours of electricity at the rate of \$0.153 per kilowatt hour. What was the cost for his electrical use? Round your answer to the nearest cent.
14. Mike had to pay a monthly fee of \$7.82 and tax of \$8.11 to the electric company. What was his total bill for electricity that month?
-  15. The average household in Middleville has 2.3 people. There are approximately 15,000 households in Middleville. Use the number of people per household to estimate the population of the town.
16. The gasoline tank in Deborah's car holds 13.2 gallons. When her gas gauge says that the tank is $\frac{1}{4}$ full, how many gallons of gasoline does the tank have?
17. In the last problem, when Deborah's gasoline tank is $\frac{1}{4}$ full, how many gallons must she add to fill the tank?
18. On Carmen's last phone bill, she had 23 minutes of calls at \$0.129 per minute and 64 minutes of calls at \$0.14 per minute. What was the total charge for these calls? Round your answer to the nearest cent.
19. On Carmen's phone bill, she also had to pay a monthly service charge of \$10.75. What was her phone bill?