





## Applying Your Multiplication Skills

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Fraction multiplication problems sometimes ask you to find *a part of* something or to figure out the cost, weight, or size of several things when you have information about only one thing.

**Solve and write the correct label, such as hours or pounds, next to each answer. Reduce each answer to lowest terms. Read the problems carefully. Some problems require operations other than multiplication.**

1. Jack's regular work week is 40 hours. One week he worked  $\frac{4}{5}$  of the time. How many hours did he work that week?
2. From their house to their parents' house, the Leightons have to drive 276 miles. If they have already driven  $\frac{2}{3}$  of the distance, how far have they gone?
3. One cubic foot of water weighs  $62\frac{1}{2}$  pounds. How much do  $3\frac{1}{5}$  cubic feet of water weigh?
4. For a bookcase he is building, Tim wants six shelves each  $28\frac{1}{2}$  inches long. What total length of shelving does he need?
5.  One yard of lumber costs \$2. Use estimation to decide which of the following is closest to the cost of  $5\frac{3}{4}$  yards of lumber.
  - a. a little under \$10
  - b. a little under \$11
  - c. a little under \$12
6. Find the exact cost of the lumber in problem 5.
7.  Robert works as an apprentice electrician. He makes \$15 an hour. Use estimation to decide which of the following is closest to the amount Robert makes for  $3\frac{1}{4}$  hours of work.
  - a. between \$40 and \$45
  - b. a little over \$45
  - c. a little over \$55

8. Verva drives 18 miles to her current job. A new job that she is considering is  $1\frac{1}{2}$  times as far as her current job. What is the driving distance to her new job?
9. A tailor needs  $3\frac{1}{6}$  yards of material to make a suit. How much material does he need to make three suits?
10. In the last problem, the tailor made the three suits from a piece of material  $12\frac{1}{4}$  yards long. How much material was left?
11. In the weeks before Christmas, Serena worked  $11\frac{1}{2}$  hours each day in a department store. For the first 8 hours each day, Serena makes \$6.40 an hour. How much did she earn for those 8 hours?
12. For overtime work, Serena gets  $1\frac{1}{2}$  times her regular wage. What does she get for one hour of overtime work?
13. How many hours of overtime did Serena work each day?
14. How much does Serena make each day for overtime work?
15. Find Serena's total income for an  $11\frac{1}{2}$  hour day.
16. Mary and José want to buy a condominium that costs \$88,000. They plan to make a down payment of  $\frac{1}{10}$  of the price of the condominium. How much is the down payment?
-  17. José's parents have offered to give them \$5,000 toward the down payment. How much do Mary and José have to take from their savings to complete the down payment?
-  18. After making the down payment, the remaining cost of Mary and José's condominium is the amount of their mortgage. How much is the mortgage for the condominium?