

**Lesson:** Multiplication of whole numbers in word problems (Enrichment)

**4<sup>th</sup> Grade Objective:** 1.02 – Develop fluency with multiplication and division.

**Vocabulary:** The answer to a multiplication problem is a product. The numbers you multiply are factors.

Here is one way to write a multiplication fact:

$$8 \times 6 = 48$$

Factors                  Product

**Lesson:**

*Example:*

Ruth bought 6 bags of oranges from a stall. If each bag contains 8 oranges, how many oranges did she buy?

*Solution:*

$$[6 \text{ bags}] \times [8 \text{ oranges in each bag}]$$

$$6 \times 8 = 48 \text{ oranges}$$

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*Example:*

At a library there are 42 bookshelves. Each bookshelf has 6 rows of shelves. If 75 books can be stacked on each row of shelf, what is the total number of books that the library can hold?

*Solution:*

$$[42 \text{ bookshelves}] \times [6 \text{ rows}] \times [75 \text{ books}]$$

$$42 \times 6 \times 75 = 18,900 \text{ books}$$

**Practice:**

1. You invite 7 of your friends to your birthday party. You decide that you are going to have your birthday party at a roller rink. Below are the cost per person to have your birthday party at the roller rink. What will the total cost of the birthday party be? (Hint: Do not forget to include yourself.)

Have a chocolate cake - \$2 per person.

Have a skating party - \$5 per person.

2. Maria wants to buy 3 bus tickets. They cost 60 cents each. How much money does she need?
3. Samantha bought a drink for 60 cents. She paid with 3 quarters. How much money did Samantha get back?
4. There are 6 cats and 2 parrots in the room. How many legs are there altogether?
5. Jenny works in the local florist shop. Her boss has asked her to calculate the total dollars in sales they made on Valentine's Day. Jenny determined that they had sold 387 bunches of flowers at a price of \$21.21 each. How much were there total sales?
6. Samuel Spud from Spud's farm is preparing to harvest his crop of potatoes to sell to the grocery store in time for Thanksgiving. The field has 195 rows of potato plants with 401 potato plants in each row. Samuel estimates that they will harvest the entire field in 13 hours. A) How many potatoes are there in all?
7. The school cafeteria is selling green Kool Aid on St. Patrick's Day. A large cup of Kool Aid is \$1.32 and a small cup of Kool Aid is \$0.85. On March 17th students purchased 58 large cups of Kool Aid and 217 small cups of Kool Aid. How much money did the cafeteria collect total?