

Lesson 25: Choosing Multiplication to Solve Word Problems

Purpose of lesson: You will multiply whole numbers in word problems.

Cheese costs \$1.89 a pound. How much money will I need to buy enough for macaroni and cheese? I need 3 pounds for the recipe.

Shopping can sometimes be challenging. When you buy **multiples** of the same item, you may want to find out the **total** price before you get to the register. Here's how to do it.

$$\begin{array}{r} ^2 ^2 \\ \$1.89 \\ \times 3 \\ \hline \$5.67 \end{array}$$

You will need \$5.67
for the cheese!



Your Family is planning a road trip. Gas costs \$1.89 a gallon.

If 12 gallons a day are used, how much will be spent on gas each day? For an 8 day trip?

This time there is a multiple amount of gallons. Choose multiplication to solve a problem when you put together equal amounts to find a total. In this case we multiply

$$\$1.89 \times 12 = \underline{\hspace{2cm}}?$$

$$\$1.89$$

$$\times 12$$

$$378$$

$$\underline{189}$$

$$\$22.68 \text{ a day}$$

How much will they spend in 8 days?

$$\text{Multiply } 8 \times 22.68 = \underline{\hspace{2cm}}?$$

Did you get \$181.44? That's correct!



From 1831 to 1841, about 6,500 people migrated to the United States each month.
How many people arrived each year during that 10 year period? How many in the total period?

Use **multiplication** to solve a problem that would add the same number repeatedly.
For this problem we multiply $6,500 \times 12 =$ (There are 12 months in a year, and we are solving for one year.)

\$6500

X 12

13000

6500

78,000 people each year

How many arrived in that total 10 year period?

Multiply $78,000 \times 10 =$ _____?

Did you get 780,000 people?

Now it's your turn to try some of these word problems!

Take Lesson 25 Quiz 1