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.

\[
\begin{array}{c}
\text{2} \\
\$ 1.89 \\
\times \text{3} \\
\$ 5.67
\end{array}
\]

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*

\[
\begin{array}{c}
$1.89 \\
\times 12 \\
378 \\
189 \\
\$ 22.68 \text{ a day}
\end{array}
\]

How much will they spend in 8 days?

Multiply 8 X 22.68 = _____ ?

\[
\begin{array}{c}
8 \\
\times \ 22.68
\end{array}
\]

$ 22.68 a day 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.)

$6500$

$\times \; 12$

$13000$

$6500$

78,000 people each year

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

**Take Lesson 25 Quiz 1**