

## Multiplication Story Problems

**1** The kids in Mr. Gill's class are going to paint a mural in the hallway by the office. The wall is 8 feet high and 23 feet long. How many square feet is the wall they're going to paint?

**2** The fourth graders are doing a show for their families. They set up 6 rows of chairs. They put 26 chairs in each row. How many chairs did they use altogether?

**3** There is a big party at the park. There are 7 tables with balloons for the kids. Each table has 34 balloons. How many balloons in all?

NAME \_\_\_\_\_



# Single-Digit Multiplication page 1 of 2

Use sketches and numbers to solve each of these story problems with your class.

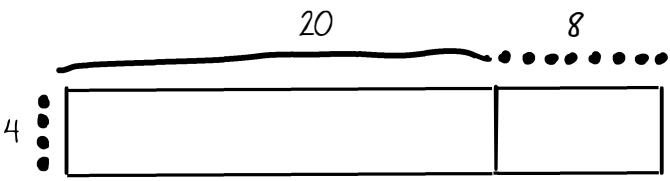
1

2

3

# Single-Digit Multiplication page 2 of 2

4 Use a sketch and numbers to solve the problems below. Follow the example.

Sketch	Numbers
<p><b>example</b></p> 	$\begin{array}{r} 28 \\ \times 4 \\ \hline 4 \times 20 = 80 \\ 4 \times 8 = 32 \\ \hline 112 \end{array}$
<p><b>a</b></p>	$\begin{array}{r} 36 \\ \times 5 \\ \hline 5 \times 30 = \underline{\quad} \\ 5 \times 6 = + \underline{\quad} \end{array}$
<p><b>b</b></p>	$\begin{array}{r} 24 \\ \times 7 \\ \hline 7 \times 20 = \underline{\quad} \\ 7 \times 4 = + \underline{\quad} \end{array}$
<p><b>c</b></p>	$\begin{array}{r} 45 \\ \times 9 \\ \hline 9 \times 40 = \underline{\quad} \\ 9 \times 5 = + \underline{\quad} \end{array}$

5 Use numbers to solve these problems.

<p><b>a</b></p> $\begin{array}{r} 52 \\ \times 6 \\ \hline 6 \times 50 = \underline{\quad} \\ 6 \times 2 = + \underline{\quad} \end{array}$	<p><b>b</b></p> $\begin{array}{r} 37 \\ \times 7 \\ \hline 7 \times 30 = \underline{\quad} \\ 7 \times 7 = + \underline{\quad} \end{array}$	<p><b>c</b></p> $\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$	<p><b>d</b></p> $\begin{array}{r} 325 \\ \times 7 \\ \hline \end{array}$
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# Think Before You Multiply

**1**

$$\begin{array}{r} 48 \\ \times 2 \\ \hline \end{array}$$

**2**

$$\begin{array}{r} 23 \\ \times 4 \\ \hline \end{array}$$

**3**

$$\begin{array}{r} 99 \\ \times 5 \\ \hline \end{array}$$

**4**

$$\begin{array}{r} 125 \\ \times 4 \\ \hline \end{array}$$

**5**

$$\begin{array}{r} 469 \\ \times 5 \\ \hline \end{array}$$

# Multiplication Methods page 1 of 2

Here are three different ways to solve  $4 \times 199$ .

Standard Algorithm	Partial Products	Landmark Numbers
$\begin{array}{r} \phantom{0}^{\text{33}} \\ 199 \\ \times 4 \\ \hline 796 \end{array}$	$\begin{aligned} 4 \times 100 &= 400 \\ 4 \times 90 &= 360 \\ 4 \times 9 &= 36 \\ 400 + 360 + 36 &= 796 \end{aligned}$	$\begin{aligned} 199 \text{ is almost like } 200 \\ 4 \times 200 &= 800 \\ 800 - 4 &= 796 \end{aligned}$

**1** Use the standard algorithm to solve each problem below. Then solve it a different way. Label your method. Circle the method that seemed quicker and easier.

	Standard Algorithm	A Different Way
<b>a</b> $\begin{array}{r} 37 \\ \times 4 \\ \hline \end{array}$		
<b>b</b> $\begin{array}{r} 63 \\ \times 7 \\ \hline \end{array}$		
<b>c</b> $\begin{array}{r} 299 \\ \times 6 \\ \hline \end{array}$		
<b>d</b> $\begin{array}{r} 749 \\ \times 7 \\ \hline \end{array}$		

## Multiplication Methods page 2 of 2

**2** Fill in the bubble to show the best estimate for each problem.

<b>a</b>	$\begin{array}{r} 43 \\ \times 7 \\ \hline \end{array}$	<input type="radio"/> 200	<b>b</b>	$\begin{array}{r} 226 \\ \times 4 \\ \hline \end{array}$	<input type="radio"/> 700
		<input type="radio"/> 250			<input type="radio"/> 800
		<input type="radio"/> 300			<input type="radio"/> 900
		<input type="radio"/> 350			<input type="radio"/> 1,000
<b>c</b> Circle the method that seems to help most for estimating.					
Standard Algorithm			Partial Products		

**3** The fourth and fifth graders at King School went to the museum yesterday in 7 buses. There were 65 students on each bus. How many students were there in all? Show your work.

**4** The big building downtown has 27 floors. There are 8 offices on each floor. Each office has 8 computers. How many computers are there in all? Show your work.