

NAME \_\_\_\_\_

DATE

2/7/12

# Set A5 ★ Independent Worksheet 3

NO HW Passes



## INDEPENDENT WORKSHEET

### Double-Digit by Single-Digit Multiplication

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

Sketch	Numbers
<p><b>example</b></p>	$\begin{array}{r} 24 \\ \times 7 \\ \hline 7 \times 20 = 140 \\ 7 \times 4 = + 28 \\ \hline 168 \end{array}$
<p><b>a</b></p>	$\begin{array}{r} 27 \\ \times 5 \\ \hline 5 \times 20 = \underline{\hspace{2cm}} \\ 5 \times 7 = + \underline{\hspace{2cm}} \end{array}$
<p><b>b</b></p>	$\begin{array}{r} 23 \\ \times 9 \\ \hline 9 \times 20 = \underline{\hspace{2cm}} \\ 9 \times 3 = + \underline{\hspace{2cm}} \end{array}$
<p><b>c</b></p>	$\begin{array}{r} 35 \\ \times 8 \\ \hline 8 \times 30 = \underline{\hspace{2cm}} \\ 8 \times 5 = + \underline{\hspace{2cm}} \end{array}$

2 Use numbers to solve these problems.

<p><b>a</b></p> $\begin{array}{r} 43 \\ \times 6 \\ \hline 6 \times 40 = \underline{\hspace{2cm}} \\ 6 \times 3 = + \underline{\hspace{2cm}} \end{array}$	<p><b>b</b></p> $\begin{array}{r} 68 \\ \times 6 \\ \hline 6 \times 60 = \underline{\hspace{2cm}} \\ 6 \times 8 = + \underline{\hspace{2cm}} \end{array}$	<p><b>c</b></p> $\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$	<p><b>d</b></p> $\begin{array}{r} 83 \\ \times 4 \\ \hline \end{array}$
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(Continued on back.)

**Independent Worksheet 3** Double-Digit by Single-Digit Multiplication (cont.)

**3** There is an area on our playground for kids to ride their bikes. It is 9 feet wide and 26 feet long. How many square feet is the bike area?

**a** Write the question in your own words.

**b** Underline the information in the problem that will help you answer the question.

**c** Solve this problem in the space below. Show all your work.

**d** Write your answer here. Include the units. \_\_\_\_\_



**CHALLENGE**

**4** A professional basketball court is 94' long and 50' wide. A highschool basketball court is 84' long and 50' wide. How many more square feet is a professional basketball court than a highschool basketball court?

**a** Write the question in your own words.

**b** Underline the information in the problem that will help you answer the question.

**c** Circle the operations you will need to solve this problem:

addition (+)

subtraction (-)

multiplication ( $\times$ )

division ( $\div$ )

**d** Solve this problem in the space below. Show all your work.

**e** Write your answer here. Include the units. \_\_\_\_\_

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# Set A5 ★ Independent Worksheet 4



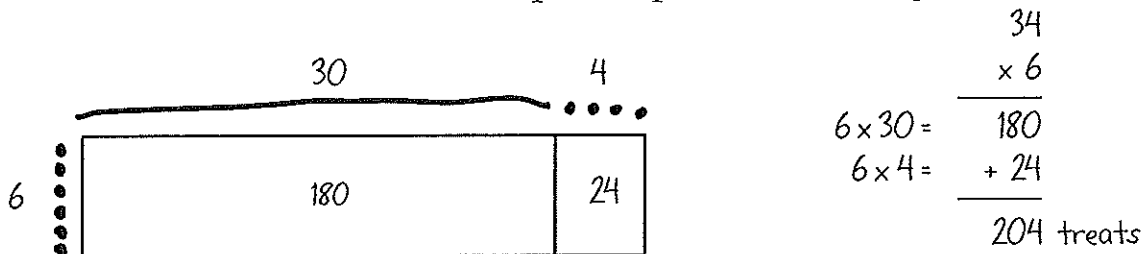
## INDEPENDENT WORKSHEET

### Using the Standard Algorithm for 2-Digit by 1-Digit Multiplication

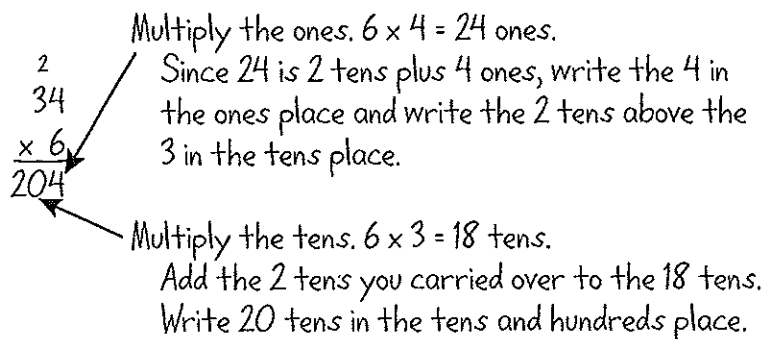
Maddie and her mom got 6 boxes of treats for their dogs. There are 34 treats in each box. How many treats did they get for their dogs?

To solve this problem, multiply  $6 \times 34$ . Here are two different methods:

- You can make a sketch and list the partial products. Then you can add them.



- You can also multiply by using the standard algorithm. If you use this method, you don't have to list the partial products.



1 Use the standard algorithm to solve the problems below.

$$\begin{array}{r}
 23 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 35 \\
 \times 7 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 29 \\
 \times 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 44 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 67 \\
 \times 2 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 19 \\
 \times 8 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 132 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 234 \\
 \times 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 416 \\
 \times 6 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 240 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 321 \\
 \times 7 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 439 \\
 \times 5 \\
 \hline
 \end{array}$$

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# Set A5 ★ Independent Worksheet 5



## INDEPENDENT WORKSHEET

### Choose Your Strategy

Here are three different ways to solve  $4 \times 29$ .

Standard Algorithm	Partial Products	Landmark Numbers
$\begin{array}{r} 3 \\ 29 \\ \times 4 \\ \hline 116 \end{array}$	$\begin{array}{l} 4 \times 20 = 80 \\ 4 \times 9 = 36 \\ 80 + 36 = 116 \end{array}$	$\begin{array}{l} 29 \text{ is almost like } 30. \\ 4 \times 30 = 120 \\ 120 - 4 = 116 \end{array}$

**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>	$\begin{array}{r} 39 \\ \times 6 \\ \hline \end{array}$	
<b>b</b>	$\begin{array}{r} 51 \\ \times 7 \\ \hline \end{array}$	
<b>c</b>	$\begin{array}{r} 65 \\ \times 7 \\ \hline \end{array}$	
<b>d</b>	$\begin{array}{r} 199 \\ \times 8 \\ \hline \end{array}$	

(Continued on back.)

## Independent Worksheet 5 Choose Your Strategy (cont.)

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

<p><b>a</b></p> $\begin{array}{r} 51 \\ \times 8 \\ \hline \end{array}$	<input type="radio"/> 350 <input type="radio"/> 400 <input type="radio"/> 450 <input type="radio"/> 500	<p><b>b</b></p> $\begin{array}{r} 326 \\ \times 3 \\ \hline \end{array}$	<input type="radio"/> 700 <input type="radio"/> 800 <input type="radio"/> 900 <input type="radio"/> 1,000
<p><b>c</b> Circle the method that seems to help most for estimating.</p>			
Standard Algorithm	Partial Products	Landmark Numbers	

**3** Sam, Sarah, Deena, and TJ each have 37 marbles. How many marbles do they have in all? Show your work.

**4** The kids at the high school are having a car wash. They charge \$6.00 to wash a car. If they wash 28 cars a day for 4 days, how much money will they make? Show your work.