

NAME _____

DATE _____



Choose Your Strategy page 1 of 2

Here are three different ways to solve 4×29 .

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

- 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
a $\begin{array}{r} 39 \\ \times 6 \\ \hline \end{array}$		
b $\begin{array}{r} 51 \\ \times 7 \\ \hline \end{array}$		
c $\begin{array}{r} 65 \\ \times 7 \\ \hline \end{array}$		
d $\begin{array}{r} 199 \\ \times 8 \\ \hline \end{array}$		

(continued on next page)

Choose Your Strategy page 2 of 2

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

- | | | | | | |
|----------|---|---------------------------|----------|--|-----------------------------|
| a | $\begin{array}{r} 49 \\ \times 8 \\ \hline \end{array}$ | <input type="radio"/> 350 | b | $\begin{array}{r} 326 \\ \times 3 \\ \hline \end{array}$ | <input type="radio"/> 700 |
| | | <input type="radio"/> 400 | | | <input type="radio"/> 800 |
| | | <input type="radio"/> 450 | | | <input type="radio"/> 900 |
| | | <input type="radio"/> 500 | | | <input type="radio"/> 1,000 |

c Circle the method that seems to help most for estimating the answers to these problems.

Standard Algorithm Partial Products Over Strategy Rounding

3 Sam, Sarah, Deena, and TJ each have 37 marbles. How many marbles do they have in all? Write and solve an equation for this problem. Show all your work.

4 **CHALLENGE** The kids at the high school are having a monthlong car wash. They charge \$6.00 to wash a car. If they wash 28 cars a day for 9 days, how much money will they make? Write and solve an equation for this problem. Show all your work.