Name _____

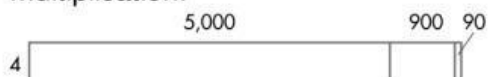## Another Look!

Find $4 \times 5{,}990$.
Estimate: 5,990 is close to 6,000, so the product is close to $4 \times 6{,}000 = 24{,}000$.

One way to solve is to use partial products. You can create an area model, a place-value model, or use the Distributive Property of Multiplication.

	5,000	900	90
4			

$4 \times 5{,}990 = 4 \times (5{,}000 + 900 + 90)$
$\qquad = (4 \times 5{,}000) + (4 \times 900) + (4 \times 90)$
$\qquad = 20{,}000 + 3{,}600 + 360$
$\qquad = 23{,}960$

Another way to solve is by compensation. Find $4 \times 6{,}000$ and then adjust the answer by subtracting the product of 4 and 10.

$5{,}990 = 6{,}000 - 10$
$4 \times 6{,}000 = 24{,}000$
$4 \times 10 = 40$
$4 \times 5{,}990 = 24{,}000 - 40$
$\qquad = 23{,}960$

The product 23,960 is reasonable because it is close to the estimate of 24,000.

For **1–15**, estimate. Then find each product by choosing an appropriate strategy.

Use your estimate to determine if your answer is reasonable.

1. $\begin{array}{r} 538 \\ \times\quad 4 \\ \hline \end{array}$

2. $\begin{array}{r} 3{,}721 \\ \times\qquad 7 \\ \hline \end{array}$

3. $\begin{array}{r} 92 \\ \times\quad 4 \\ \hline \end{array}$

4. 6×505

5. $5 \times 6{,}384$

6. $7 \times 3{,}218$

7. $5{,}219 \times 3$

8. $1{,}236 \times 8$

9. The animal shelter charges $119 to adopt a pet. On Saturday, 2 dogs and 7 cats were adopted. How much money did the animal shelter receive from those adoptions?

10. Kamiko and her 4 sisters each have 18 grandchildren. Calculate the total number of grandchildren of Kamiko and her 4 sisters.

11. Over the weekend, 1,719 tickets were sold for a musical. How much money did the musical bring in?

ADMIT ONE
ADMIT ONE
ADMIT ONE
$3 each

In a multi-step problem, look back to be sure you answered the question asked.

LIVEWORKSHEETS