

Homework & Practice 3-9

Multiply by 1-Digit Numbers

Another Look!

Find 78×4 .

Estimate by rounding to the nearest ten.

78×4 is about

$$80 \times 4 = 320.$$

$$\begin{array}{r} 78 \\ \times 4 \\ \hline 312 \end{array}$$

312 is close to 320.
The answer is reasonable.

Find $2,802 \times 2$.

Estimate by rounding to the nearest thousand.

$2,802 \times 2$ is about

$$3,000 \times 2 = 6,000.$$

$$\begin{array}{r} 2,802 \\ \times 2 \\ \hline 5,604 \end{array}$$

5,604 is close to 6,000.
The answer is reasonable.

For 1–15, find each product.

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

2.
$$\begin{array}{r} 214 \\ \times 8 \\ \hline \end{array}$$

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

4.
$$\begin{array}{r} 7,956 \\ \times 8 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 92 \\ \times 4 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 37 \\ \times 8 \\ \hline \end{array}$$

7. 6×505

8. 3×589

9. $5 \times 6,384$

10. $2 \times 9,497$

11. $7 \times 3,218$

12. $9 \times 1,938$

13. $5,219 \times 3$

14. $6,205 \times 3$

15. $1,236 \times 8$

Remember to use estimation to check if your answers are reasonable.



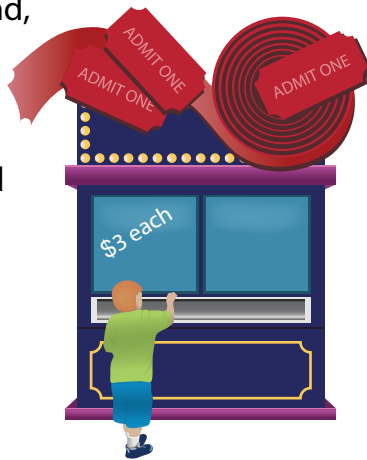
16. A grocery store orders 47 bags of onions and 162 bags of potatoes. The onions cost \$2 per bag, and the potatoes cost \$3 per bag. How much is spent on onions and potatoes?

17. 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?

18. **Algebra** The insect exhibit at the museum has 8 display cases with 417 insects in each case. Write and solve an equation to show how many insects are displayed at the museum.

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

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



21. **Higher Order Thinking** Bo has 23 video games for sale. He plans to donate the money he makes from each sale to a local charity. What is the least amount of money in whole dollars Bo should charge for each game in order to raise \$100? Explain.

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22. Zoe has 1,500 beads. She wants to make 6 friendship bracelets. She needs 215 beads for each bracelet. How many beads will Zoe have left after making all 6 of the bracelets? Explain.



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