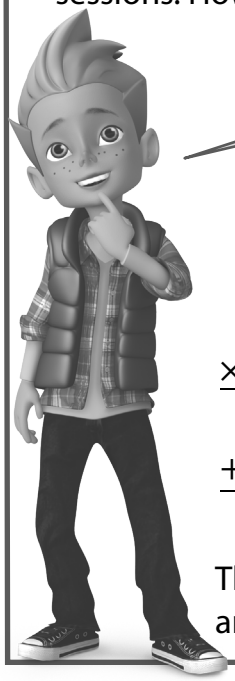
Name _____

Practice Video Tools Games

Additional Practice 3-5
Multiply 3-Digit by 2-Digit Numbers

Another Look!

Last year, 23 students in fifth grade were assigned a kindergarten student as a reading buddy. Each student read for 1 hour during each reading session and for a total of 128 sessions. How many hours in all did the fifth-grade students read?



Estimate: 130 times 20 is 2,600

Step 1
Multiply by the ones. Regroup as needed.

Step 2
Multiply by the tens. Regroup as needed.

Step 3
Add to get the final product.

$$\begin{array}{r} 128 \\ \times\ \ 23 \\ \hline {}^{1}384 \\ +\ 2{,}560 \\ \hline 2{,}944 \end{array} \qquad \begin{array}{r} {}^{2}128 \\ \times\ \ 3 \\ \hline 384 \end{array} \qquad \begin{array}{r} {}^{1}128 \\ \times\ 20 \\ \hline 2{,}560 \end{array}$$

The fifth-grade students read for 2,944 hours in all. The answer is reasonable because it is close to the estimate.

In **1–10**, find each product. Estimate to check that your answer is reasonable.

1.
$$\begin{array}{r} 282 \\ \times\ \ 19 \\ \hline 2{,}538 \\ +\ 2{,}820 \\ \hline 5{,}358 \end{array}$$
2,538 ← Multiply by the ones.
2,820 ← Multiply by the tens.
5,358 ← Add the partial products.

2.
$$\begin{array}{r} 538 \\ \times\ \ 46 \\ \hline 3{,}228 \\ +\ 21{,}520 \\ \hline 24{,}748 \end{array}$$
3,228 ← Multiply by the ones.
21,520 ← Multiply by the tens.
24,748 ← Add the partial products.

3. $\begin{array}{r} 395 \\ \times\ \ 76 \\ \hline 30{,}020 \end{array}$

4. $\begin{array}{r} 83 \\ \times\ 57 \\ \hline 4{,}731 \end{array}$

5. $\begin{array}{r} 628 \\ \times\ 33 \\ \hline 20{,}724 \end{array}$

6. $\begin{array}{r} 154 \\ \times\ 35 \\ \hline 5{,}390 \end{array}$

7. 682×25
17,050

8. 324×71
23,004

9. 158×6
948

10. 16×29
464

11. **Critique Reasoning** Is 2,750 a reasonable answer for 917 × 33? Explain.

No; Sample answer: If you round 917 to 900 and 33 to 30, the product is 900 × 30 or 27,000, so 2,750 is not reasonable.

12. **Vocabulary** What two partial products would you add to find 513 × 46?

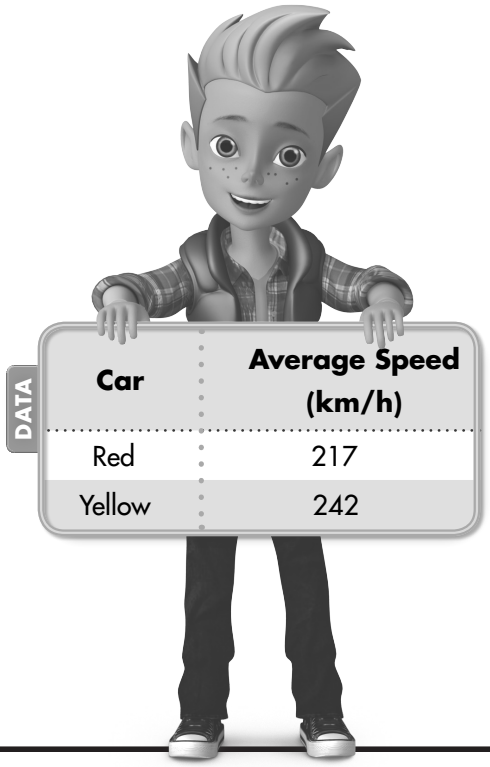
3,078 and 20,520

13. How many kilometers could the red car travel in 12 hours? Write an equation to show your work.

2,604 km; 217 × 12 = 2,604

14. **Higher Order Thinking** In 12 hours, how many more kilometers could the yellow car go than the red car? Show your work.

300 km; 242 × 12 = 2,904; 2,904 − 2,604 = 300



DATA

Car	Average Speed (km/h)
Red	217
Yellow	242

Assessment Practice

15. Katie is building a rectangular wall. The wall will be 332 bricks wide and 39 bricks tall. How many bricks does she need to build the wall?

12,948

16. What is the product?

311 × 42

Ⓐ 1,822

Ⓑ 1,866

Ⓒ 13,062

Ⓓ 13,082

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