









Additional

Practice 3-4 Multiply 2-Digit by 2-Digit Numbers

Another Look!

There are 24 cars in the Speedy Cup Series. Each car has 13 workers in the pit area. How many pit-area workers are at the race?





There is more than one way to multiply.

Use Partial Products

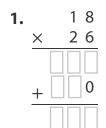
Use the Standard Algorithm

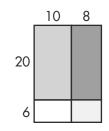
Multiply by the ones. Regroup if necessary.

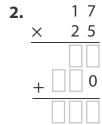
Multiply by the tens. Regroup if necessary.

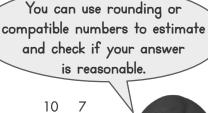
There are 312 pit-area workers at the race.

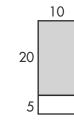
For **1–10**, use the standard algorithm or partial products to find the product. Draw area models as needed.





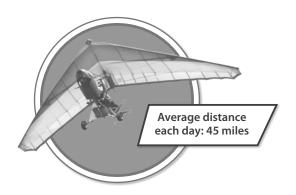








11. An ultralight airplane tracked monarch butterflies migrating to Mexico during the month of September. There are 30 days in September. How many miles did the ultralight travel in September?



For **12–13**, use the table at the right.

- **12.** How much do 21 bushels of sweet corn weigh?
- **13.** How much do 18 bushels of asparagus and 7 bushels of carrots weigh?

d	Vegetable	Weight of 1 Bushel
DAT/	Asparagus	24 pounds
	Beets	52 pounds
	Carrots	50 pounds
	Sweet corn	35 pounds

- **14.** Rob purchased a rug for his apartment. The rug is 72 inches by 96 inches. Calculate the area of the rug in square inches.
- **15. Higher Order Thinking** Corina found $62 \times 22 = 1,042$. Is Corina's answer reasonable? Explain.

Assessment Practice

- 16. Maria has 92 flower arrangements. Each arrangement has 48 blue flowers and 50 yellow flowers. Maria calculates there are 9,016 flowers in all the arrangements. Which of the following expressions shows how to use an estimate to check Maria's calculation?
 - \bigcirc 90 + 50 + 50
 - (B) 90 × 10
 - © $90 \times (50 + 50)$
 - \bigcirc 90 × (50 × 50)

- **17.** Without calculating, which of the following is a reasonable answer for 28 × 32?
 - (A) 196
 - (B) 496
 - © 896
 - D 12,096