Name _____

2.2 Multiply by 2-Digit Numbers

Estimate. Then find the product.

1. 34×12

2. 18×22

3. 43×15

4. 58×37

5. 328×15

6. 922×30

7. 832×13

8. 372×24

9. 823×17

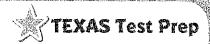**10.** 472×31

11. 517×43

12. 658×83

Problem Solving Real World

13. A male lion needs as much as 15 pounds of food each day, or 105 pounds of food each week. How much food does a lion need in one year? There are 52 weeks in one year.

14. An African elephant in the wild will eat for as long as 16 hours each day. For how many hours does an elephant eat in one year? There are 365 days in one year.

Fill in the bubble completely to show your answer.

15. During the school year, Luis fills 138 pages of a composition notebook. There is a clue on the last page of the notebook. It says to multiply the number of pages in the book that were filled by 17. This is the code for a free prize in the lunchroom. What is the code?

    (A) 2,432

    (B) 1,240

    (C) 2,346

    (D) 2,436

16. To train for a race, Jesse rode his bike for 48 minutes every day for 17 days. He estimates that he rode his bike for about 400 minutes in all. Which of the following statements is true?

    (A) Jesse estimated correctly.

    (B) Jesse rode his bike for about 1,000 minutes.

    (C) Jesse rode his bike for about 70 minutes.

    (D) Jesse rode his bike for about 500 minutes.

17. Marcus builds a brick wall that is 23 bricks across and 130 bricks high. Which is the best estimate of about how many bricks Marcus will use to build the wall?

    (A) 2,000

    (B) 4,500

    (C) 1,000

    (D) 3,750

18. The parents club buys 12 cartons of pretzels to sell as refreshments at a soccer game. There are 75 bags of pretzels in one carton. How many bags of pretzels do the parents have?

    (A) 860

    (B) 830

    (C) 900

    (D) 980

19. **Multi-Step** Marli worked 37 hours this week. She earned $15 per hour. She spent $62 on a birthday gift for her sister. How much money does Marli have left?

    (A) $464

    (B) $493

    (C) $378

    (D) $511

20. **Multi-Step** A farmer plants a field that can fit 27 rows of pepper plants with 14 plants in each row. She can also fit 4 rows of pumpkins with 4 plants in each row. How many plants can the farmer fit in her field?

    (A) 378

    (B) 394

    (C) 6,048

    (D) 1,512