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10. 560 × 396 **240,000**

13. 928 × 89 **81,000**

11. 498 × 47 **25,000**

14. 308 × 18 **6,000**

12. 492 × 22 **10,000**

15. 936 × 410 **360,000**

- 16. Laura's family is going on a vacation. They will drive 4,180 miles over the next two weeks. About how many miles will they drive on average each week?
 Sample answer: 2,000 miles per week
- 17. Make Sense and Persevere A bus service drives passengers between Milwaukee and Chicago every day. They travel from city to city 8 times each day. The distance between the two cities is 89 miles. In February, there are 28 days. The company's budget allows for 28,000 total miles for February. Do you think the budget is reasonable? Explain. Yes. $28 \times 10 \times 100 = 280 \times 100 = 28,000$ Because this is an overestimate, there are enough miles.
- **18. Higher Order Thinking** Explain whether rounding or compatible numbers gives a closer estimate for the product below.

 $48 \times 123 = 5,904$ Sample answer: They are the same. $50 \times 120 = 6,000$ is the estimate that results from rounding to the nearest 10 and using compatible numbers.

- 19. A case of 24 pairs of the same kind of sports shoes costs a little more than \$800. Explain whether \$28 per pair with tax included is a good estimate of the price. No; Sample explanation: Use compatible numbers: 25 × 30 = 750. Since this is an overestimate, \$28 is too low.
- **20.** The number of Adult tickets is the same as the number of Child (age 5–12) tickets. A total of 38 tickets was purchased. What is the total cost of the tickets? Explain.

Sample answer: \$760; \$23 + \$17 = \$40; There are 19 of each kind of ticket sold, so you can just multiply $19 \times $40 = 760 .

Ticke	ŀ	Price (in \$)
Adult	• • •	23
Child, age	5–12	17
Under 5	0	8

Assessment Practice

- **21.** Which does **NOT** show a reasonable estimate of 360 × 439?
 - A 100,000
 - B 140,000
 - © 160,000
 - D 180,000

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22. A club orders 124 T-shirts at a cost of \$18 each. Which is the best estimate of the total cost of the order?

