

Name \_\_\_\_\_

1. Use numbers from the box to show how to multiply 217 by 4.

2 1 7	28	35
× 4	40	170
+ _____	280	800
_____	888	868

2. In each of 3 games last month, Julia's bowling score was 195. Explain how to use mental math to find the total score for Julia's 3 games.

3. Mrs. Wallingford sells trading cards in boxes of 30 and in boxes of 60. If she sells 5 boxes of 60 and 6 boxes of 30, how many trading cards did Mrs. Wallingford sell?

- A 40 trading cards
- B 480 trading cards
- C 500 trading cards
- D 4,800 trading cards

4. A. What are the partial products when finding  $2,361 \times 4$ ? Select all that apply.

- |                                |                                |                              |
|--------------------------------|--------------------------------|------------------------------|
| <input type="checkbox"/> 8,000 | <input type="checkbox"/> 4,600 | <input type="checkbox"/> 4   |
| <input type="checkbox"/> 1,200 | <input type="checkbox"/> 2,000 | <input type="checkbox"/> 240 |

- B. Find the product of 2,361 and 4.

5. The Bumblebee Bakery is taking orders for cupcakes. The cupcakes are sold in boxes.

Cupcakes	Number of Boxes
Strawberry Crème	37
Blackberry Bliss	72
Chocolate Delight	43
Surprise Assortment	17

- A. There are 8 Blackberry Bliss cupcakes in each box. Write and solve an equation to find how many Blackberry Bliss cupcakes were ordered.

- B. There are 8 cupcakes in each box of the Surprise Assortment. Draw an area model and show the partial products to find how many Surprise Assortment cupcakes were ordered.

6. Select all the expressions that could be used to find  $327 \times 9$ .

- $327 + 9$
- $9 \times 327$
- $9 \times (300 + 20 + 7)$
- $(9 \times 300) + (9 \times 20) + (9 \times 7)$
- $9 + (300 + 20 + 7)$

7. Draw a model to find  $224 \times 4$ .

$224 \times 4 = \underline{\hspace{2cm}}$

8. Select all of the expressions that have a product of 920.

- $(9 \times 100) + (2 \times 10)$
- $9 \times 120$
- $(90 \times 2) \times 1$
- $115 \times 8$
- $(9 \times 100) \times (2 \times 10)$

9. The table shows the number of sandwiches sold in a busy deli in 1 month.

Type	Number
Chicken	230
Roast Beef	189
Ham	305
Turkey	267

A. If the same number of turkey sandwiches were sold for 4 months in a row, how many turkey sandwiches would be sold in all?

B. The deli sells 3 times as many tuna sandwiches in one month as roast beef. How many more tuna sandwiches were sold than roast beef in 5 months? Explain.

10. A store sells a 70-inch TV for \$1,149 and a 50-inch TV for \$487. Find the cost for three 70-inch TVs and three 50-inch TVs. Explain how you know your answer is reasonable.

11. Which expression has the same value as  $3 \times 156$ ?

- (A)  $(3 \times 1) + (3 \times 5) + (3 \times 6)$
- (B)  $(3 \times 100) + (3 \times 50) + (3 \times 6)$
- (C)  $(3 \times 100) + (3 \times 5) + (3 \times 6)$
- (D)  $(3 \times 1) + (3 \times 50) + (3 \times 600)$

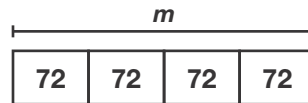
12. Which of the following is equivalent to  $(700 \times 3) + (59 \times 3)$ ?

- (A)  $759 \div 3$
- (B)  $700 \times 10$
- (C)  $759 \times 3$
- (D)  $700 \times 3 + 59$

13. Find  $4 \times 256$ . Draw a bar diagram to solve.

14. Rudy's Pizza makes 317 pizzas and 54 subs every day. How many items are made in 3 days?

15. Write and solve an equation that represents the given bar diagram.



16. Which of the following is equivalent to 657? Select all that apply.

- $73 \times 9$
- $73 \div 9$
- $8 \times 73$
- $73 \times 8$
- $9 \times 73$

17. Mr. Brouard would like to purchase a laptop computer for each of his 2 daughters and 1 son. The computers each cost \$387.

A. Mr. Brouard thinks the total cost should be about \$1,100. Is this amount reasonable? Explain.

B. Write and solve an equation to find the total cost of the computers. Explain why your answer is reasonable.

18. What is the product of  $4 \times 1,817$ ?

- (A) 768
- (B) 7,068
- (C) 7,228
- (D) 7,268

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19. How can you use mental math to find the product of  $5 \times 790$ ?

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20. A. Select all the partial products for  $7 \times 532$ .

- 14
- 35
- 210
- 3,500
- 4,000

B. Find the product for **Part A** using the partial products.