

Name _____

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

$\begin{array}{r} 217 \\ \times 4 \\ \hline 868 \end{array}$	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px 10px;">28</td><td style="padding: 2px 10px;">35</td></tr> <tr><td style="padding: 2px 10px;">40</td><td style="padding: 2px 10px;">170</td></tr> <tr><td style="padding: 2px 10px;">280</td><td style="padding: 2px 10px;">800</td></tr> <tr><td style="padding: 2px 10px;">888</td><td style="padding: 2px 10px;">868</td></tr> </table>	28	35	40	170	280	800	888	868
28	35								
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. **2 points**

Sample answer: 195 is close to 200 so multiply 3×200 and then subtract 3×5 ; $600 - 15 = 585$

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? **1 point**

- (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. **1 point**

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

- B. Find the product of 2,361 and 4. **1 point**

9,444

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. **2 points**

**$8 \times 72 = b$;
 $b = 576$ Blackberry Bliss cupcakes**

- 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. **2 points**

10	7				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center; vertical-align: middle;">8</td> <td style="padding: 10px;">$8 \times 10 = 80$</td> </tr> </table>	8	$8 \times 10 = 80$	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px; text-align: center; vertical-align: middle;">8</td> <td style="padding: 10px;">$8 \times 7 = 56$</td> </tr> </table>	8	$8 \times 7 = 56$
8	$8 \times 10 = 80$				
8	$8 \times 7 = 56$				
$80 + 56 = 136$					
Surprise Assortment cupcakes					

6. Select all the expressions that could be used to find 327×9 . **1 point**

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

7. Draw a model to find 224×4 . **2 points**

$224 \times 4 = \underline{896}$

8. Select all of the expressions that have a product of 920. **1 point**

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

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? **1 point**

1,068 turkey sandwiches

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. **2 points**

1,890 more tuna sandwiches; Sample answer: $189 \times 3 = 567$; $567 - 189 = 378$; $378 \times 5 = 1,890$

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. **2 points**

\$4,908; Sample answer: One 70-inch TV is about \$1,000 and one 50-inch TV is about \$500, so three 70-inch TVs are about \$3,000 and three 50-inch TVs are about \$1,500. \$4,908 is close to \$4,500, so my answer is reasonable.

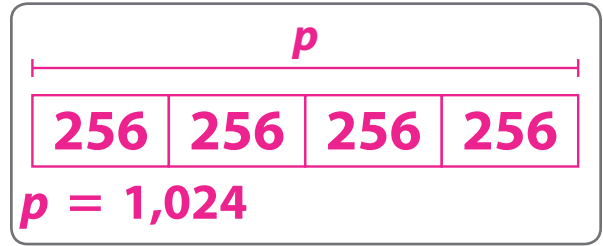
11. Which expression has the same value as 3×156 ? **1 point**

- (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 $(700 \times 3) + (59 \times 3)$? **1 point**

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

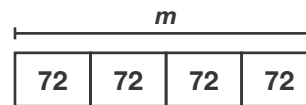
13. Find 4×256 . Draw a bar diagram to solve. **2 points**



14. Rudy's Pizza makes 317 pizzas and 54 subs every day. How many items are made in 3 days? **1 point**

1,113 items

15. Write and solve an equation that represents the given bar diagram. **2 points**



$4 \times 72 = m;$
 $m = 288$

16. Which of the following is equivalent to 657? Select all that apply. **1 point**

- 73×9
 $73 \div 9$
 8×73
 73×8
 9×73

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. **2 points**

Yes; Sample answer:
 $3 \times \$387$ is about $3 \times \$400$ or \$1,200. Since the actual cost for a computer is less than \$400 the actual cost will be less than \$1,200. Therefore, \$1,100 is a reasonable estimate.

B. Write and solve an equation to find the total cost of the computers. Explain why your answer is reasonable. **3 points**

Sample answer:
 $3 \times \$387 = c$;
 $c = \$1,161$;
 $3 \times \$400 = \$1,200$;
\$1,200 is close to \$1,161, so my answer is reasonable.

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

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

19. How can you use mental math to find the product of 5×790 ? **2 points**

3,950; Sample answer:
790 is close to 800, so I can multiply 5×800 and then subtract 5×10 ;
 $4,000 - 50 = 3,950$

20. A. Select all the partial products for 7×532 . **1 point**

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

B. Find the product for **Part A** using the partial products. **1 point**

3,724