

Name \_\_\_\_\_

1. Find  $36 \div 4$ . **1 point**

$$36 \div 4 = 9$$

2. A. Fill in the missing factors and products in the multiplication table below.

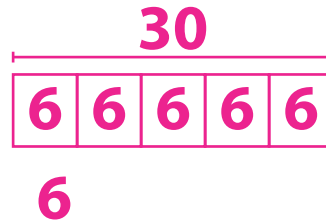
**1 point**

×	<b>5</b>	<b>7</b>	9
<b>1</b>	<b>5</b>	<b>7</b>	9
2	10	<b>14</b>	18
3	15	<b>21</b>	<b>27</b>
4	<b>20</b>	28	36
<b>5</b>	<b>25</b>	<b>35</b>	45

- B. What pattern do you see in the first row of products in the table? Explain why this pattern is true. **2 points**

**Sample answer: Each number is the same as the factor that is multiplied by 1. The Identity Property of Multiplication says that any number times 1 is that number.**

3. Find  $30 \div 5$ . Draw a bar diagram to represent the problem. **2 points**



4. Find the product. **1 point**

$$7 \times 8$$

- (A) 35  
 (B) 49  
 (C) 56  
 (D) 63

5. Find the product. **1 point**

$$4 \times 3 = \boxed{12}$$

6. Which of the following strategies can help you solve  $3 \times 8$ ? Select all that apply. **1 point**

- $(3 \times 4) + (3 \times 4)$   
  $(3 \times 3) + (8 \times 8)$   
  $(3 \times 8) + (1 \times 8)$   
  $(1 \times 3) + (1 \times 8)$   
  $(1 \times 8) + (2 \times 8)$

7. What number is missing from this multiplication table? **1 point**

×	4	5
6	24	30
7	?	35

- (A) 21  
(B) 26  
(C) 28  
(D) 32

8. Select the correct product or quotient for each equation. **1 point**

	<b>48</b>	<b>7</b>	<b>28</b>	<b>8</b>
$6 \times 8 = ?$	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$4 \times 7 = ?$	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
$42 \div 6 = ?$	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
$32 \div 4 = ?$	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

9. Some squares are shaded to show a pattern in the multiplication table.

×	1	2	3	4
2	2	4	6	8
3	3	6	9	12
4	4	8	12	16
5	5	10	15	20
6	6	12	18	24

- A. Identify a pattern shown in the multiplication table. **1 point**

**Sample answer:**  
**A 6s fact is 3 times a 2s fact.**

- B. Explain why this pattern is true. **1 point**

**Sample answer:**  
**Because 6 is 3 times 2, all 6s facts in the table will be 3 times the 2s facts. So,**  
 **$6 \times 3 = (3 \times 2) \times 3$ .**

10. Divide. **1 point**

$$60 \div 6$$

**10**

11. Which division equation could be used to solve  $7 \times ? = 56$ ? **1 point**

- (A)  $56 \div 6 = ?$
- (B)  $56 \div 7 = ?$
- (C)  $56 \div 2 = ?$
- (D)  $7 \div ? = 56$

12. Eighteen can be evenly divided by which of the following numbers? Select all that apply. **1 point**

- 7
- 3
- 5
- 4
- 9

13. What is the product of 9 and 2? Write an equation to solve the problem. **2 points**

**18;  $9 \times 2 = 18$**

14. Look at these two expressions.

$$30 \div 6 \quad 30 \div 5$$

A. Explain how you can compare the expressions without computing. **1 point**

**Sample answer: Both expressions have 30 as a dividend. If I divide the same amount into fewer groups, then there will be more in each group.**

B. Check your answer by computing both quotients. **2 points**

**$30 \div 6 = 5$ ;  $30 \div 5 = 6$ ;  $30 \div 6$  is less than  $30 \div 5$ .**

15. Which shows a way to solve  $4 \times 5$ ? **1 point**

- (A) Use the Distributive Property:  
 $(2 \times 4) + (2 \times 3)$
- (B) Use repeated addition:  
 $5 + 5 + 5 + 5$
- (C) Look at a multiplication table: Find the 4s row. Go across until you find 5. The product is the number at the bottom of that column, 45.
- (D) Use the Identity Property:  
 $(1 \times 4) + (1 \times 5)$

16. Steve displays his favorite stickers in an array. There are 9 rows of stickers. He puts 5 stickers in each row. How many stickers does he display in all? Write an equation to solve the problem. **2 points**

**45 stickers;  $9 \times 5 = 45$**

17. Multiply. **1 point**

$$3 \times 2$$

**6**

18. Look at the multiplication table below.

$\times$	4	5	6	7
3	12	15	18	21
4	16	20	24	28
5	20	25	30	35
6	24	30	36	42
7	28	35	42	49
8	32	40	48	56

- A. Shade the products in the 6s column of the table. What pattern do you see? **2 points**

**Sample answer: The products are all even.**

- B. Explain the pattern you found. **1 point**

**Sample answer: One factor is always 6, which is even. The other factors change between even and odd as I read down the table. If one factor is even, the product will be even.**