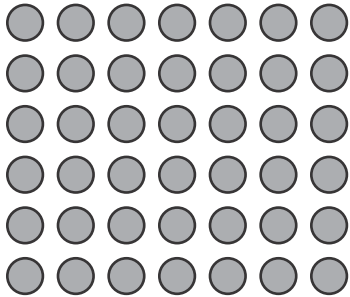


Name _____

1. Marilyn arranged her stickers in an array. Which two expressions can be used to find the total number of stickers?



- Ⓐ 3×7 and 4×7
 Ⓑ 6×7 and 6×1
 Ⓒ 4×7 and 2×7
 Ⓓ 4×4 and 2×3

2. Choose *Yes* or *No* to tell if the Commutative Property of Multiplication is being used.

2a. $4 \times 8 = 4 \times (4 + 4)$ Yes No

2b. $4 \times 6 = 6 \times 4$ Yes No

2c. $(2 \times 3) \times 4 =$ Yes No
 $(3 \times 2) \times 4$

2d. $(2 \times 3) \times 4 =$ Yes No
 $4 \times (2 \times 3)$

3. Lucky makes the generalization that an 8s fact can be broken into two 4s facts. Write an equation to test his generalization.

4. Jamal broke up a large array into a 3×6 array and a 4×6 array. What was the large array? Show your work.

5. Which facts can you use to find 6×8 ? Select all that apply.

6×1 and 6×7

3×1 and 3×7

6×6 and 6×7

2×8 and 4×8

6×4 and 6×4

6. A bookstore uses 6 books in each display. There are 2 displays on each of the bookstore's 4 walls. How many books are used in the displays? Show your work.

7. Find the number that makes the equation correct. Explain your reasoning.

$(3 \times 8) + (4 \times 8) = \underline{\hspace{2cm}}$

8. Alma has 6 bags of beads. There are 8 beads in each bag. How many beads does Alma have? Show your work.

beads

9. Larry organizes his baseball cards into a 3×7 array. Akio organizes his baseball cards into a 7×8 array. How can Larry and Akio break apart their arrays? Write each pair of facts in the correct space.

3×7	7×8

3×3 and 3×4

1×8 and 6×8

3×8 and 4×8

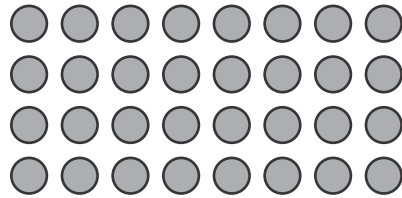
1×7 and 2×7

7×4 and 7×4

10. A bakery has bagels displayed on 4 shelves. Each shelf has 2 baskets. Each basket has 8 bagels. How many bagels are displayed in all? Write an expression that represents the amount.

bagels

11. Chase arranged his counters into this array.



- A. What two facts could Chase use to write an equation for the array?

- B. If Chase adds one more row of 8 counters to his array, can he still use the facts you wrote in Part A? Explain why or why not.

12. Jerome bought 2 adult tickets and 7 student tickets for a play. How much did he spend? Show any equations used.

Ticket Prices

Student \$4 each ticket
Adult \$6 each ticket