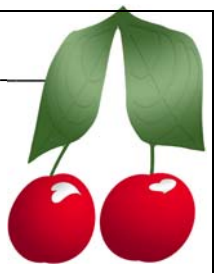
Name _____



Word & Application Problems

Directions: Read carefully. Solve each problem and explain what property helps. Show your thinking with numbers or words.

1. Sarah has 3 red balloons and 5 blue balloons. Ben has 5 red and 3 blue. Who has more? What property explains your answer?

2. There are 4 rows of 6 desks. Would there be the same number if there were 6 rows of 4 desks?

3. A box has 8 candies in each row and 5 rows total. If the rows were switched (5 candies in 8 rows), would there still be the same amount?

4. Mia has 7 dogs and 2 cats. Liam has 2 dogs and 7 cats. Who has more pets in total? What property shows why?

5. A farmer plants 3 rows of 9 trees. How many trees is that? Would 9 rows of 3 trees make the same number?

6. Tom has 4 quarters and 6 nickels. How many coins is that? If he had 6 quarters and 4 nickels, would it change the total?

Choose the Correct Expression

Directions: Choose the pair that shows the **Commutative Property**.

7. a) 8 − 4 and 4 – 8 b) 6 + 4 and 6 − 4 c) 9 ÷ 3 and 3 ÷ 9 d) 5 × 2 and 2 × 5

8. a) 7 − 9 and 9 − 7 b) 7 × 9 and 9 × 7 c) 9 + 7 and 7 − 9 d) 12 ÷ 3 and 3 ÷ 12

9. a) 3 + 4 and 4 + 3 b) 3 × 4 and 4 ÷ 3 c) 6 ÷ 2 and 2 ÷ 6 d) 5 − 2 and 2 − 5

10. a) 10 − 2 and 2 − 10 b) 5 + 4 and 5 – 4 c) 8 ÷ 4 and 4 ÷ 8 d) 10 × 2 and 2 × 10

11. a) 4 + 11 and 11 + 4 b) 11 − 4 and 4 − 11 c) 12 ÷ 6 and 6 ÷ 12 d) 5 × 7 and 5 ÷ 7

12. a) 9 − 3 and 3 – 9 b) 6 ÷ 8 and 8 ÷ 6 c) 8 × 6 and 6 × 8 d) 7 + 9 and 9 − 7

13. a) 10 ÷ 5 and 5 ÷ 10 b) 4 + 8 and 8 + 4 c) 7 − 2 and 2 − 7 d) 6 × 3 and 3 ÷ 6