

Name: _____

Date: _____

Chapter 6 Quiz 2 Practice

Find the greatest common factor of the numbers.

1) 18 and 42

2) 54, 72, and 90

Find the least common multiple of the numbers.

3) 9 and 12

4) 4, 6, and 10

For questions 5 – 6, use the following scenario: *A grocery store is making identical fruit baskets. The store has 84 bananas, 72 oranges, and 96 apples. Each basket has to have the same number of each kind of fruit.*

5) What is the greatest number of fruit baskets the store can make?

6) How many pieces of each type of fruit are in each basket?

For questions 7 – 8, use the following scenario: *In Mathville, the North train arrives at the train station every 30 minutes, the East train arrives every 25 minutes, and the West train arrives every 15 minutes. Suppose they are all at the train station right now.*

7) In how many minutes will they all be at the train station again?

8) How many types of each train will have passed through the station by this time?

Determine if the expressions are equivalent. If equivalent, state the property. If not equivalent, explain why.

9) $7 \cdot (6 \cdot t)$ and $(7 \cdot 6) \cdot t$


10) $10 \div 5$ and $5 \div 10$

Use the distributive property to rewrite and evaluate each expression.

11) $11 \cdot 27$

12) $6 \times 5\frac{2}{3}$

13) $7(3.9)$

- 14)  **Be Precise** Mrs. Singh bought 9 folders and 9 notebooks. The cost of each folder was \$2.50. Each notebook cost \$4. Write two equivalent expressions and then find the total cost.

Factor each expression.

15) $16 + 42$

16) $72 + 96$