Name: _____ **Class:** _____ **Date:** _____ **ID: A**

Math 7 Mastery Test #1 Review

Short Answer

1. Utako earns money by caring for horses while people are on vacation. Utako earns $20 per week per pet. The table shows the number of horses cared for per week during July. Simplify the expression $(1 + 7 \times 3) \times 20$ to find out how much Utako earned for the month of July.

Week	Pets
Week 1	1
Week 2	7
Week 3	7
Week 4	7

2. Tell which property is represented.
$12 + 0 = 12$

3. Use the Distributive Property to find $7(98)$.

4. Evaluate $y - 2$ for $y = 3$.

5. Evaluate $4y + 4$ for $y = 5$.

6. Evaluate $\frac{35}{m} + 6x$ for $m = 7$ and $x = 2$.

7. Simplify $30 - 16 \div 2$.

8. Tell which property is represented. $266 \times 1 = 266$.

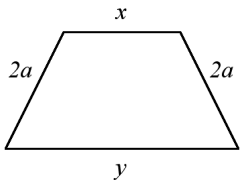
9. Tell which property is represented. $9 \times (5 \times 2) = (9 \times 5) \times 2$.

10. Tell which property is represented. $p + q = q + p$.

11. Simplify the expression $63 + 30 \div 5 \times 4 - 10$.

12. Simplify $12 + 3\left(18 - 4^2\right) + 9$.

13. Write an expression for the perimeter of the trapezoid. Then, simplify the expression.



14. Identify like terms in the list: $5.8q; 6a^2; 4q; 5t; z^2; a; 3a^2; \frac{10}{11}r; \frac{q}{3}; 7r$.

15. It takes 60 days to create a custom motorcycle. Write an algebraic expression to describe the number of days it takes to create *n* custom motorcycles. How many days will it take to create 6 custom motorcycles?

16. A fence has a total of 550 planks. Violeta paints *p* planks each day. Write an algebraic expression for how many days it will take Violeta to finish painting the fence.

17. Write the phrase as an algebraic expression.
7 less than the product of a number and 27

Math 7 Mastery Test #1 Review
Answer Section

SHORT ANSWER

1. $440
2. Identity Property
3. 686
4. 1
5. 24
6. 17
7. 22
8. Identity Property
9. Associative Property
10. Commutative Property
11. 77
12. 27
13. $2a + x + 2a + y$; $4a + x + y$
14. $5.8q$, $\frac{q}{3}$, and $4q$; $6a^2$ and $3a^2$; $\frac{10}{11}r$ and $7r$
15. $60n$; 360 days
16. $\frac{550}{p}$
17. $27p - 7$