Lesson 1-7 & 1-8 Review

1. A fence has a total of 650 planks. Violeta paints n planks each day. Write an algebraic expression for how many days it will take Violeta to finish painting the fence.

2. Write the phrase as an algebraic expression.
   the quotient of a number and 11

3. Write the phrase as an algebraic expression.
   the product of 16 and a number

4. It takes 78 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?

5. Write the phrase as an algebraic expression.
   4 times the sum of a number and 8

6. Write the phrase as an algebraic expression.
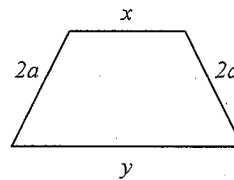   10 less than a number times 21

   Use highlighters or colored pencils on #8-11!

7. Write the phrase as an algebraic expression.
   6 less than a number times 19

8. Identify like terms in the list:
   $7x$ $3a^2$ $6x$ $5t$ z^2 a $4a^2$ $7r$ $5x$ $7r$

9. Identify like terms in the list:
   $4a^4$ $5r$ $2y$ $11r$ $2a^4$ $8y$ z^4 $6t$ a $2y$

10. Identify like terms in the list:
    $4m$ $4r$ $2m$ $6a^3$ $9m$ $5t$ $4a^3$ $11r$ z^3 a

11. Identify like terms in the list:
    $8n$ $7r$ $2a^2$ $5r$ $6n$ a z^2 $6a^2$ $2t$ $3n$

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

Simplify the expression.

13. $6x+4+8x+3$

14. $3x+7y+4x-6y$

15. $8x+1-4x+3$

1

16. $4c^2 + 5c + 2c$

17. $5d^2 - 3d^2 + d$

18. $32y - 5y$

19. $7x + 8x^2 - 3y$

20. $6b + 6b^2 + 6b^3$