

**Unit 5-3 apply properties of real numbers and properties of equality to solve multistep linear equations in one variable.**

1. Mrs. Singh wrote this equation on the board.

$$\frac{1}{4}(2n - 28) = 10$$

What is the solution?

- A.  $n = 17$   
B.  $n = 19$   
C.  $n = 34$   
D.  $n = 68$
2. Solve the equation below for  $p$ .

$$5p = 21 + 2p$$

- A. 3  
B. 4  
C. 7  
D. 10
3. What value for  $x$  makes this equation true?

$$\frac{1}{2}(x - 9) = x - 23$$

- A. 16  
B. 28  
C. 37  
D. 55
4. Write a value for  $x$  that will make this equation true.  $x = -5x + 6$

Answer: \_\_\_\_\_

5. Write a value for  $x$  that will make this equation true.  $5x + 8 + 3x = 26 + 6x$

Answer: \_\_\_\_\_

**Target 5-4 a) write verbal expressions and sentences as algebraic expressions and equations**  
**b) write algebraic expressions and equations as verbal expressions and sentences.**

**Target 5-5 solve practical problems that require the solution of a multistep linear equation**

1. Which of the following is the algebraic form for the verbal statement shown?

“subtract 3 from a number, n, and divide the result by 5”

A  $n - \frac{3}{5}$

B  $n - 5 \div 3$

C  $\frac{n-3}{5}$

D  $n - 3(5)$

2. Provide the algebraic sentence that would represent the verbal sentence, “15 is the result of ten less than two-thirds of a number”.

Answer: \_\_\_\_\_

3. Which phrase best represents  $\frac{y}{5} + 2$ ?

A The sum of two and the difference of a number, y, and five.

B The sum of two and the quotient of a number, y, and five.

C The difference of two and the quotient of a number, y, and five.

D The quotient of two and the sum of a number, y, and five.

4. Provide the algebraic sentence for “six less than twice a number is four”.

5. Gillian has a certain amount of money. If she spends \$12, which is the same as  $\frac{1}{5}$  the original amount, how much money did Gillian have originally?

Answer: \_\_\_\_\_