Combine like terms for each expression.

1) 13x + 18 - 3x

2) 20m + 12n - 5m + 13n + 65

3) 18c + 4 + 2c

4) 17b + 2c + b - c

5) 19a + 16b - 5a + 4b + 4

6) 11b + 14c - 5b + 3c + 35

7) a + 8 - 4

8) 12a + 19b + 12a - 9b

9) 139 + 6 - 69

10) 19a + 12b + a - 2b

11) q + 13 - 6

12) 18p + 8q + 2p - 7q

13) 4a + 13b - 2a + 2b + 25

14) 10m + 12n - 5m + 3n + 5

15) 19a + 2b + 11a - b

16) y + 8 - 6

17) a + 70 - 35

18) 10y + 3 - 2y

20) 19x + 12y - 5x + 13y + 75

http://www.softschools.com/math/algebra/expressions/combining_like_terms_worksheets/

Variables and Expressions

R 1-13

Word Phrase	Operation	Algebraic Expression
• six more than a number • the sum of 5 and a number t	Addition	n + 6 5 + t
three less than a number n the difference of 7 and a number t	Subtraction	n - 3 7 - t
 the product of 9 and a number n 12 times a number b 	Multiplication	9 × n or 9n or 9 • n b × 12
• the quotient of a number g divided by 3	Division	$g \div 3 \text{ or } \frac{g}{3}$

To evaluate 23n for n = 5, substitute 5 for n, and multiply.

Write each word phrase as an algebraic expression.

1. 25 more than p 2. the product of s and 7

3. 14 decreased by e ______ **4.** *n* divided by 18 _____

Evaluate each expression for b = 6.

5. *b* × 5 _____ **6.** 19 + *b* _____ **7.** 42 ÷ *b* _____

For 8–11, evaluate each expression for n = 3, 5, and 7.

8. n - 1 _____, ____ 9. n + 13 _____, ____

10. 9n _____, ____ 11. \(\frac{105}{n} \)

12. Number Sense Write 11n as a word phrase in two different ways.

Mystery Number

Use the following clues to determine the mystery number. For each one, write an equation and then solve the equation.

- 1. When 3 is added to my number, the sum is 38. What is my number?
- 6. When 49 is subtracted from my number, the difference is 15. What is my number?
- 2. When 15 is subtracted from my number, the difference is 45. What is my number?
- 7. When 22 is subtracted from my number, the difference is 54. What is my number?
- 3. When my number is added to 18, the sum is 30. What is my number?
- 8. When 55 is added to my number, the sum is 108. What is my number?
- 4. When 36 is subtracted from my number, the difference is 85. What is my number?
- 9. When my number is subtracted from 25. the difference is 7. What is my number?
- 5. When 62 is added to my number, the sum is 130. What is my number?
- 10. When my number is added to 653, the sum is 1,637. What is my number?

Solve one-step equations using addition or subtraction