

## Lesson 5.2 Parts of an Expression

Identify each of the following as an *expression* or an *equation*.

- | <b>a</b>                   | <b>b</b>                | <b>c</b>                 |
|----------------------------|-------------------------|--------------------------|
| 1. $8 + x$ _____           | $9 + 7 = 16$ _____      | $20 \times m = 60$ _____ |
| 2. $b \div 5$ _____        | $32 = 8 \times 4$ _____ | $43 \times 7$ _____      |
| 3. $4h$ _____              | $91 - 20 = 71$ _____    | $17 + c$ _____           |
| 4. $36 = 9 \times 4$ _____ | $65 - x$ _____          | $30f$ _____              |

For each term below, identify the coefficient and the variable.

- | <b>a</b>                                  | <b>b</b>                              |
|---|---------------------------------------|
| 5. $6g$ coefficient _____ variable _____  | $p$ coefficient _____ variable _____  |
| 6. $5r$ coefficient _____ variable _____  | $9t$ coefficient _____ variable _____ |
| 7. $2x$ coefficient _____ variable _____  | $4n$ coefficient _____ variable _____ |
| 8. $3a$ coefficient _____ variable _____  | $7d$ coefficient _____ variable _____ |
| 9. $20s$ coefficient _____ variable _____ | $y$ coefficient _____ variable _____  |

Translate each phrase into an expression or an equation.

- |  |                                    |
|--|------------------------------------|
| 10. the sum of 3 and $b$ _____         | 8 times the sum of $f$ and 7 _____ |
| 11. product of 8 and $d$ _____         | $p$ added to 4 equals 9 _____      |
| 12. subtract 3 from 4 times $m$ _____  | $r$ minus 2 is 8 _____             |
| 13. 4 times the sum of 5 and $x$ _____ | product of 10 and 2 _____          |
| 14. 12 times $r$ minus 7 _____         | the sum of 9 and $k$ _____         |

## Lesson 5.3 Writing Expressions

Translate each phrase into an algebraic expression or an equation.

- | a   | b  |
|---|--|
| 1. subtract 8 from 3 times $d$ _____        | take away 3 from $x$ _____                     |
| 2. $g$ minus 2 is 14 _____                  | $z$ is added to 8 _____                        |
| 3. the sum of 7 and $z$ _____               | 2 is subtracted from 4 times $d$ _____         |
| 4. two-fifths of the sum of 6 and $s$ _____ | 9 minus $c$ _____                              |
| 5. 10 minus $x$ _____                       | subtract 9 from the product of 4 and $f$ _____ |
| 6. 3 is subtracted from 5 times $a$ _____   | $y$ minus 3 is 15 _____                        |
| 7. $s$ is added to 9 _____                  | the sum of 8 and $t$ _____                     |
| 8. take away 9 from $h$ _____               | one-third of the sum of 7 and $k$ _____        |

Write each expression in words.

9.  $9 \div x$  \_\_\_\_\_
10.  $3 \times g = 27$  \_\_\_\_\_
11.  $6 \times m - 4$  \_\_\_\_\_
12.  $\frac{1}{2} \times b + 9 = 11$  \_\_\_\_\_
13.  $14 \div p$  \_\_\_\_\_
14.  $6 \times b = 42$  \_\_\_\_\_
15.  $9 \times d - 10$  \_\_\_\_\_
16.  $\frac{1}{4} \times t + 8 = 16$  \_\_\_\_\_