

Name:

Date

: Hour:

**Unit 2 Study Guide**  
**Algebraic Expressions**

Write an algebraic expression for each phrase.

- 1) Four added to three times a number  $x$  is 28.

$$4 + 3x = 28$$

- 2) Ten subtracted from the product of  $x$  and 2 is 20.

$$2x - 10 = 20$$

- 3) The quotient of a number and three, plus five is 12.

$$\frac{x}{3} + 5 = 12$$

Write an algebraic expression for each word phrase.

- a) Two fewer than  $m$  mice

$$m - 2$$

- b) 12 times  $b$  boxes

$$12b$$

Write a variable expression that represents each phrase.

- 1) Eleven more than a number  $y$ .

$$11 + y$$

- 2) Nine less than a number  $c$ .

$$c - 9$$

- 3) The quotient of five times a number  $b$  and twenty.

$$\frac{5b}{20}$$

- 4) The product of 5 and number  $z$  minus 10.

$$5z - 10$$