



Name \_\_\_\_\_ Date \_\_\_\_\_

Rewrite each phrase as an algebraic expression, then solve for the variable. Show your work.

1. the sum of 3 plus 6 times a number, equals 39

$$3 + 6n = 39$$

$$6n = 36$$

$$n = 6$$

2. 5 times n, reduced by 9, equals 51

3. 2



4. 6

## **PREVIEW**

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5. 7 ames a named, moreasca by 12, equals 47

75 is the product of *n* times 5, and 30 divided by 6





Name \_\_\_\_\_ Date \_\_\_\_\_

Rewrite each phrase as an algebraic expression, then solve for the variable. Show your work.

1. the difference of 16 and a number, divided by 2, equals 4

$$(16 - n) \div 2 = 4$$

$$(16 - n) = 4 \times 2$$

$$16 = 8 + n, \quad n = 8$$

- 2. 10 times a number, minus 12, equals 88
- 3. 3



4. 7

### **PREVIEW**

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- 5. the ame chocor of and ro, arriada by a number, equals 9
- 6. the product of 12 and a number, increased by 11, equals 47





Name \_\_\_\_\_ Date \_\_\_\_\_

Rewrite each phrase as an algebraic expression, then solve for the variable. Show your work.

1. the sum of 3 plus 6 times a number, equals 39

$$3 + 6n = 39$$

$$6n = 36$$

$$\eta = 6$$

2. 5 times n, reduced by 9, equals 51

$$5n - 9 = 51$$

$$5n = 60$$

$$n - 12$$

3. 2



4.

# **PREVIEW**

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5. 7 mines a number, moreased by 12, equals 47

$$7n = 35$$

$$n = 5$$

6. 75 is the product of *n* times 5, and 30 divided by 6

$$5n(30 \div 6) = 75$$

$$5n(5) = 75, 25n = 75$$

$$n = 3$$





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Name \_\_\_\_\_ Date \_\_\_\_\_

Rewrite each phrase as an algebraic expression, then solve for the variable. Show your work.

1. the difference of 16 and a number, divided by 2, equals 4

$$(16 - n) \div 2 = 4$$

$$(16 - n) = 4 \times 2$$

$$16 \neq 8 + n, \quad n = 8$$

2. 10 times a number, minus 12, equals 88

$$10n - 12 = 88$$

$$10n = 100$$





4. 7

## **PREVIEW**

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5. the ame choc or so and ro, arriaca by a number, equals 9

$$72 \div n = 9$$

$$n = 8$$

6. the product of 12 and a number, increased by 11, equals 47

$$12n + 11 = 47$$

$$n = 3$$