



Name _____ Class _____ 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
p

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5. the difference of 66 and 18, divided by
a number, equals 9

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



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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

$$10n - 12 = 88$$

$$10n = 100$$

$$n = 10$$

3. 3



4. 7
p

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5. the difference of 66 and 18, divided by
a number, equals 9

$$72 \div n = 9$$

$$n = 8$$

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

$$12n + 11 = 47$$

$$12n = 36$$

$$n = 3$$