
Missing Numbers in Equations (J) Answers

$$3 \times 6 = 18$$
$$x = 3$$

$$11 - 9 = 2$$
$$k = 9$$

$$10 - 1 = 9$$
$$j = 10$$

$$63 \div 9 = 7$$
$$i = 9$$

$$11 - 4 = 7$$
$$u = 4$$

$$7 - 1 = 6$$
$$b = 7$$

$$7 \times 5 = 35$$
$$s = 5$$

$$10 - 2 = 8$$
$$p = 2$$

$$16 \div 2 = 8$$
$$y = 2$$

$$9 + 5 = 14$$
$$m = 9$$

$$28 \div 4 = 7$$
$$t = 28$$

$$24 \div 6 = 4$$
$$z = 24$$

$$42 \div 7 = 6$$
$$h = 7$$

$$6 \div 6 = 1$$
$$q = 6$$

$$1 + 4 = 5$$
$$g = 4$$

$$16 - 8 = 8$$
$$r = 16$$

$$2 \times 7 = 14$$
$$f = 2$$

$$12 - 3 = 9$$
$$j = 3$$

$$1 \div 1 = 1$$
$$r = 1$$

$$11 - 6 = 5$$
$$b = 6$$

$$11 - 6 = 5$$
$$j = 11$$

$$64 \div 8 = 8$$
$$j = 8$$

$$9 + 5 = 14$$
$$n = 9$$

$$25 \div 5 = 5$$
$$y = 5$$

$$3 + 4 = 7$$
$$s = 4$$

$$7 \times 5 = 35$$
$$o = 7$$

$$8 + 1 = 9$$
$$s = 8$$

$$11 - 5 = 6$$
$$s = 5$$

$$12 \div 6 = 2$$
$$h = 6$$

$$2 \div 1 = 2$$
$$x = 1$$

$$11 - 5 = 6$$
$$j = 5$$

$$4 + 8 = 12$$
$$z = 4$$

Answer Key: Creating Algebraic Expressions:

Instructions: Write an algebraic expression for each phrase.

a number decreased by ninety-two	<u>$n - 92$</u>
the sum of eighty-nine and a number	<u>$89 + n$</u>
a number added to thirty-six	<u>$36 + n$</u>
the sum of a number and twenty-six	<u>$n + 26$</u>
the difference between forty-six and a number	<u>$46 - n$</u>
the sum of a number and forty-three	<u>$n + 43$</u>
the quotient of twenty and a number	<u>$20/n$</u>
a number increased by sixty-five	<u>$n + 65$</u>
the sum of seventy and a number	<u>$70 + n$</u>
a number increased by eighteen	<u>$n + 18$</u>
fifty-five times a number	<u>$55n$</u>
fourteen times a number	<u>$14n$</u>
a number increased by sixty-five	<u>$n + 65$</u>
the sum of fifty-two and a number	<u>$52 + n$</u>
seventy-five more than a number	<u>$n + 75$</u>

Answer Key: Sample Word Problems:

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|--------------------------------|--|------------------|-----------------------------------|
| 1. <i>Tommy has:</i> | <i>$33 \times 3 = t$</i> | <i>99</i> | <i>cupcakes</i> |
| 2. <i>Maggie took:</i> | <i>$24 - n = 15$</i> | <i>9</i> | <i>books</i> |
| 3. <i>There are:</i> | <i>$10n=200$</i> | <i>20</i> | <i>packages of pencils</i> |
| 4. <i>Carmen put:</i> | <i>$3n=21$</i> | <i>7</i> | <i>pennies in each</i> |
| 5. <i>Hunter added:</i> | <i>$52 + n=63$</i> | <i>11</i> | <i>cards on the deck</i> |