

Name _____

Date _____

Solving Basic Equations in 3 Steps

Solve the equations below and write the algebraic steps. The first problem is already done for you.

$12x + 6 = 54$	$\frac{a}{3} + 5 = 7$	$9x + 3 = 30$
$\underline{12x + 6 - 6 = 54 - 6}$	_____	_____
$\underline{12x \div 12 = 48 \div 12}$	_____	_____
$\underline{\quad\quad\quad x = 4}$	_____	_____
$\frac{x}{5} - 1 = 2$	$5x - 11 = 19$	$6x - 6 = 30$
_____	_____	_____
_____	_____	_____
_____	_____	_____
$5a + 50 = 75$	$3x - 9 = 21$	$3x + 8 = 35$
_____	_____	_____
_____	_____	_____
_____	_____	_____

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Answer Key

$12x + 6 = 54$	$\frac{a}{3} + 5 = 7$	$9x + 3 = 30$
$12x + 6 - 6 = 54 - 6$ $12x \div 12 = 48 \div 12$ $x = 4$	$a + 15 = 21$ $a = 21 - 15$ $a = 6$	$9x + 3 - 3 = 30 - 3$ $9x \div 9 = 27 \div 9$ $x = 3$
$\frac{x}{5} - 1 = 2$	$5x - 11 = 19$	$6x - 6 = 30$
$x - 5 = 10$ $x = 10 + 5$ $x = 15$	$5x - 11 + 11 = 19 + 11$ $5x \div 5 = 30 \div 5$ $x = 6$	$6x - 6 + 6 = 30 + 6$ $6x \div 6 = 36 \div 6$ $x = 6$
$5a + 50 = 75$	$3x - 9 = 21$	$3x + 8 = 35$
$5a + 50 - 50 = 75 - 50$ $5a \div 5 = 25 \div 5$ $a = 5$	$3x - 9 + 9 = 21 + 9$ $3x \div 3 = 30 \div 3$ $x = 10$	$3x + 8 - 8 = 35 - 8$ $3x \div 3 = 27 \div 3$ $x = 9$