

Mixed Equations

Name: _____ Date: _____



Solve the equations.

(1) $-6x - 44 = 14 - 4x$

(2) $-10x + 100 = -54 + x$

(3) $88 - 6x = 4x - 102$

(4) $53 + 11x = 3x - 43$

(5) $-5x - 35 = 17 - 7x$

(6) $-17 + 5x = 8x + 34$

(7) $-93 + 7x = x + 69$

(8) $-21 + x = -4x + 39$

(9) $6x - 35 = 10x + 65$

(10) $-132 + 4x = -5x + 84$

(11) $2x + 30 = 7x - 100$

(12) $-30 - 5x = 20 - 3x$

Mixed Equations ANSWER KEY



Solve the equations.

$$\begin{aligned} (1) \quad -6x - 44 &= 14 - 4x \\ -44 - 2x &= 14 \\ -2x &= 58 \\ x &= -29 \end{aligned}$$

$$\begin{aligned} (2) \quad -10x + 100 &= -54 + x \\ 100 &= -54 + 11x \\ 154 &= 11x \\ 14 &= x \end{aligned}$$

$$\begin{aligned} (3) \quad 88 - 6x &= 4x - 102 \\ 88 &= -102 + 10x \\ 190 &= 10x \\ 19 &= x \end{aligned}$$

$$\begin{aligned} (4) \quad 53 + 11x &= 3x - 43 \\ 53 &= -43 - 8x \\ 96 &= -8x \\ -12 &= x \end{aligned}$$

$$\begin{aligned} (5) \quad -5x - 35 &= 17 - 7x \\ -35 + 2x &= 17 \\ 2x &= 52 \\ x &= 26 \end{aligned}$$

$$\begin{aligned} (6) \quad -17 + 5x &= 8x + 34 \\ -17 - 3x &= 34 \\ -3x &= 51 \\ x &= -17 \end{aligned}$$

$$\begin{aligned} (7) \quad -93 + 7x &= x + 69 \\ -93 + 6x &= 69 \\ 6x &= 162 \\ x &= 27 \end{aligned}$$

$$\begin{aligned} (8) \quad -21 + x &= -4x + 39 \\ -21 + 5x &= 39 \\ 5x &= 60 \\ x &= 12 \end{aligned}$$

$$\begin{aligned} (9) \quad 6x - 35 &= 10x + 65 \\ -35 - 4x &= 65 \\ -4x &= 100 \\ x &= -25 \end{aligned}$$

$$\begin{aligned} (10) \quad -132 + 4x &= -5x + 84 \\ -132 + 9x &= 84 \\ 9x &= 216 \\ x &= 24 \end{aligned}$$

$$\begin{aligned} (11) \quad 2x + 30 &= 7x - 100 \\ 30 &= -100 + 5x \\ 130 &= 5x \\ 26 &= x \end{aligned}$$

$$\begin{aligned} (12) \quad -30 - 5x &= 20 - 3x \\ -30 - 2x &= 20 \\ -2x &= 50 \\ x &= -25 \end{aligned}$$