

Mixed Equations

Name: _____ Date: _____



Solve the equations.

(1) $-7x + 220 = 13x - 380$

(2) $-64 + 18x = 26 + 15x$

(3) $-20x - 139 = -25x + 81$

(4) $-4x - 117 = -8x + 43$

(5) $\frac{12x - 19}{-7} = 25$

(6) $16 = \frac{-12x - 20}{-14}$

(7) $165 + 2x = -18x - 435$

(8) $-277 - 14x = 171 - 6x$

(9) $13x - 178 = 19x + 86$

(10) $71 - 13x = -16x - 58$

Mixed Equations ANSWER KEY



Solve the equations.

$$\begin{aligned} (1) \quad -7x + 220 &= 13x - 380 \\ 220 &= -380 + 20x \\ 600 &= 20x \\ 30 &= x \end{aligned}$$

$$\begin{aligned} (2) \quad -64 + 18x &= 26 + 15x \\ -64 + 3x &= 26 \\ 3x &= 90 \\ x &= 30 \end{aligned}$$

$$\begin{aligned} (3) \quad -20x - 139 &= -25x + 81 \\ -139 + 5x &= 81 \\ 5x &= 220 \\ x &= 44 \end{aligned}$$

$$\begin{aligned} (4) \quad -4x - 117 &= -8x + 43 \\ -117 + 4x &= 43 \\ 4x &= 160 \\ x &= 40 \end{aligned}$$

$$\begin{aligned} (5) \quad \frac{12x - 19}{-7} &= 25 \\ 12x - 19 &= -175 \\ 12x &= -156 \\ x &= -13 \end{aligned}$$

$$\begin{aligned} (6) \quad 16 &= \frac{-12x - 20}{-14} \\ -224 &= -12x - 20 \\ -204 &= -12x \\ 17 &= x \end{aligned}$$

$$\begin{aligned} (7) \quad 165 + 2x &= -18x - 435 \\ 165 &= -435 - 20x \\ 600 &= -20x \\ -30 &= x \end{aligned}$$

$$\begin{aligned} (8) \quad -277 - 14x &= 171 - 6x \\ -277 - 8x &= 171 \\ -8x &= 448 \\ x &= -56 \end{aligned}$$

$$\begin{aligned} (9) \quad 13x - 178 &= 19x + 86 \\ -178 - 6x &= 86 \\ -6x &= 264 \\ x &= -44 \end{aligned}$$

$$\begin{aligned} (10) \quad 71 - 13x &= -16x - 58 \\ 71 &= -58 - 3x \\ 129 &= -3x \\ -43 &= x \end{aligned}$$