



10-9-15 4th period

Simple math

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Introduction:

Objective : to demonstrate how to solve equations

Equation- a statement that the values of two mathematical expressions are equal.

$$4x = 2/5$$

Using “Multiplicative inverse”

Step 1: Divide both sides by 4.

$$4x/4 = 2/5/4$$

$$x = 1/10$$

$$x - \frac{1}{4} = \frac{2}{5}$$

$x - \frac{1}{4} = \frac{2}{5}$ you will use "addition property of equality" which is

Basically do the same thing on both sides of the equal sign >

so add $\frac{1}{4}$ on both sides $\frac{1}{4}$ cancels out $x = \frac{2}{5} + \frac{1}{4}$

$$\begin{array}{r} 5x - 6 = 14 \\ + 6 \quad + 6 \\ \hline \end{array}$$
$$\begin{array}{r} 5x - \cancel{6} = 14 \\ + \cancel{6} \quad + 6 \\ \hline 20 \end{array}$$

$$15 - \frac{2}{3}x = 20$$

You will be using “Subtraction property of equality” and “Multiplicative inverse”

Step 1: Simplify both sides of the equation.

$$-\frac{2}{3}x + 15 = 20$$

Step 2: Subtract 15 from both sides.

Step 3: Multiply both sides by $3/(-2)$.

$$-\frac{2}{3}x + 15 - 15 = 20 - 15$$

$$-\frac{2}{3}x = 5$$

$$\left(\frac{3}{-2}\right) * \left(-\frac{2}{3}x\right) = \left(\frac{3}{-2}\right) * (5)$$

$$x = -15/2$$

$$x = -7.5$$

$$5-2(x-3)=-23$$

Step 1: subtract 5-2.

$$3(x-3)=-23$$

Step 2: multiply 3×3 and $3x(X)$

x-

$$9=-23$$

$$x=17$$

