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-¼=⅖

X-¼=⅖ you will use "addition property of equality" which is

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

so add ¼ on both sides 1/4 cancels out x= 2/5 - 1/4

$$5x - 6 = 14$$
$$+ 6 \quad +6$$

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$$\overline{20}$$

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

You will be using "Subtraction property of equality" and "Multiplicative inverse"

Step 1: Simplify both sides of the equation.

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

Step 2: Subtract 15 from both sides.

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

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

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

$(3/-2) * (-\tfrac{2}{3}x) = (3-2/3) * (5)$

$X = -15/2$

$X = -7.5$

5-2(x-3)=-23

Step 1:subtract 5-2.   3(x-3)=-23

Step 2: multiply 3x3 and 3x(X)   x-9=-23

x=17

Jimmy and Jay breed their own dog's. Jimmy breed his dog's first, They already had the two that he breed and he kept them all. Jay breed three times as many dogs as Jimmy, but he gave sixteen of the dog's to his friend Kay. What the value of X the number of dogs the dog's breed?

$$x+2=3x-16$$

Step 1: Subtract 3x from both sides.

$$x+2-3x=3x-16-3x$$
$$-2x+2=-16$$

Step 2: Subtract 2 from both sides

$$-2x+2-2=-16-2$$
$$-2x=-18$$

Step 3: Divide both sides by -2.

-2x/-2 = -18/-2

x = 9