Name _____ Date _____

Solve real-world and mathematical problems - Guided Lesson Explanation

Explanation#1

Let x = tickets sold last week

Total no. of tickets sold this week = 69

The equation will be:

$3x = 69$

To find the value of x we will divide 69 by 3

$X = \frac{69}{3}$

X = 23 She sold 23 tickets last week.

You can check your answer by putting the value of 'x' i.e. 23 .

3 x 23 = 69 (Looks good)

Explanation#2

Males = 19x Females = x

Total members = 80

Step 3) The equation will be:

$19x + x = 80$

Combine like terms

$20x = 80$

Get x by itself

$X = \frac{80}{20}$

X = 4

The number of males in the new club = 19 x 4 = 76

Name _____ Date _____

Explanation # 3

Let x = the no. of passes that David sold to children

Let y = total no. of passes David sold (50)

Adult passes = (x + 20)

Children passes = x

Step 3) The equation will be:

$$(x + 20) + x = 50$$

Get x by itself by subtracting 25 from both sides and combining like terms.

$$x + x = 50 - 20$$

$$2x = 30$$

Divide both sides by 2 to get x by itself.

$$x = 15$$

Since the number of passes was represented by x, David sold 15 passes to children.