Question 6.

Improving Mason's solution

Total cost of customer = $ 60.75

Shiping Cost per order $ 3.25

Cost of @ sweater including tax = $ 28.75

let S be the number of sweaters ordered.

To make one order cost $ 3.25.

Number of sweater bought = S × 28.75

Equation is

$$28.75S + 3.25 = 60.75$$

$$28.75S = 60.75 - 3.25$$

$$\frac{28.75}{28.75}S = \frac{57.5}{28.75}$$

$$S = 2$$

The number of sweaters = 2

check left side Right side

$$28.75S + 3.25 = 60.75$$

$$28.75(2) + 3.25$$

$$= 60.75$$

Question 7

My problem.

John sells pizza at a price of $4 per pizza. When a customer orders any quantity, he delivers them at a cost of $7. If the total cost a customer spend in ordering is 55, what is the number of pizza did the customer ordered?

let n be the number of pizza.

Total pizza $n \times \$4 = 4n$.

$$4n + 7 = 55.$$

$$4n = 55 - 7.$$

$$4n = 48.$$

$$n = 12.$$

checked left side	Right side
~~$4n + 55$~~	
$4n + 7$	55
$4(12) + 7$	
$= 55$	

The number of pizza ordered = 12

I could let 55 represent the total expenditure. Then n would represent the number of pizzas and $4n$ represents the cost of 12 pizzas

The number 7 represent $7 so on $4n$ would represent cost of the pizzas. The equation above explains the variable.

I used 7 and 55 for both sides and subtracted 7. I divided both side by 4 and got 12 number of pizzas..

I checked my solution by substitution method. This my my problem solved the answer.

Question 8
Creating a problem on
$5n + 1.39 = 8.89$

A company produces pencils and sells them at a given price. The cost of producing 1

Question 8
Creating a problem on
$5n + 1.39 = 8.89$

I ordered 5 pens. The delivery cost for the pens is $1.39 and planned to spend $8.89 bill!

let n represent the cost of@pen. so that.

$5n + 1.39 = 8.89$

$5n = 8.89 - 1.39$

$\frac{5n}{5} = \frac{7.5}{5}$

$n = 1.5$

Check left side
$5n + 1.39 = 8.89$.

$5(1.5) + 1.39$.

$= 8.89$

Right side
8.89.

I could let 8.89 represent the cost of ordering 5 pens 1.39 could represent the cost of delivery. $5n$ represented the cost of ~~ordering~~ 5 pens. The total expenditure makes it 8.89.

I subtracted 1.39 from both sides of the equation so that I can realize the cost of 5 pens. I divided both side by 5 to get cost of 1 pen I checked my solution by substitution

Question 9

$6.5n + 5 = 31$

My problem.

The initial cost of producing burgers is \$5. The cost of producing 1 item is 6.5. The company used a total cost of \$ 31. What is the number of units of burgers produced by the company?.

Let n be the number of burgers produced at cost of 31.

$6.5n + 5 = 31$

$6.5n = 31 - 5$

$\frac{6.5n}{6.5} = \frac{26}{6.5}$

$n = 4$

The number of burgers produced $= 4$

How problem created.

By letting n represent the number of burgers produced at the total cost of \$31. 6.5 represents the cost of 1 ~~burger~~ burger. The initial cost of \$5 by the company. I let the cost of n burgers to be $6.5n$. By subtracting 5 from the both sides, and dividing by 6.5 I got 4 items. The Company produces 4 burgers at a cost of \$31.