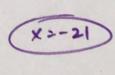
Original Score

Algebra - Unit 1 Extra Practice

I can solve equations with variables on one side.

-7x - 3x - 85 = 125 (Combine!) 1.



5(2-x)-3(4-2x)=202.

$$\frac{\frac{1}{2}(x-3)+7=12}{-7-7}$$
2. $\frac{1}{2}(x-3) = 5 \cdot 2$ (Multiply by reciprocal!)
$$x-3 = 10$$

$$+3 + 3$$

$$4(x+3)-2x=7$$

$$4x+12-2x=7$$

$$2x+12=7$$

$$-12$$

$$-12$$

$$2x+-5$$

- $\frac{3x}{12} \times \frac{9}{2}$ (cross multiply!) 5.

$$3x \cdot 2 = 9 \cdot 12$$
 $4x = 108$
 $5 = 18$
 $5 = 18$

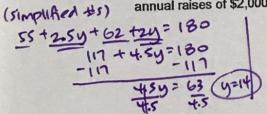
x+7 11 (cross multiply!)

Algebra - Unit 1 Extra Practice

I can solve equations in context.

Be sure to define your variables, write an equation, and write your answer in a complete sentence.

Carl makes \$55,000 and is getting annual raises of \$2,500. His wife, Claire, makes \$62,000 with variable annual raises of \$2,000. How many years will it take for the couple to make \$180,000 together?



4.

on supplies. If you want to make \$750 profit this season, how many pools do you need to clean? 2. variable poposis

Tim is choosing between cell phone plans with the same number of free minutes. AT&T charges \$39.99 per month with additional minutes costing \$0.45. Verizon's plan costs \$44.99 with 3. additional minutes at \$0.40. How many additional minutes until the plans to cost the same? m= additional min

	varia
ATIT = venzo	~
39.99 to.45m=44.7	- 0.4m
39.99 + 0.05m = 44.9	1

74. 31 -39.11
You need to paint your 2,200 square foot house using two types of paint. One gallon of glossy paint covers 140 square feet, and one gallon of matte paint covers 175 square feet. If you buy 9 gallons of glossy paint, how many gallons of matte paint should you buy?

The perimeter of the rectangle is 24 meters. Solve for x. 5.

The perimeter of the rectaligie is 24 ineters. Solve for x.

$$(2x-6) + (x+3) + (2x-6) + (x+3) = 24$$

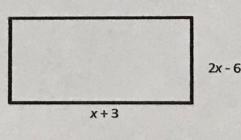
$$6x-6 = 24$$

$$+6$$

$$6x = 30$$

$$6x = 30$$

$$6x = 30$$



Algebra - Unit 1 Extra Practice

I can solve equations with variables on both sides.

1.
$$-3x = \frac{1}{2}(x+6)-10$$

$$-3x = \frac{1}{2}x+3-10$$

$$-3x = \frac{1}{2}x+$$

2.
$$16x-7+4x=12x-1$$
 (combine)

3.
$$2m+4-3m=8(m-1)$$

4.
$$x+5x+4=3(2x-1)$$

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

 $\begin{vmatrix} -2x = (-2x) \\ +2x \end{vmatrix} + \begin{vmatrix} -2x \end{vmatrix}$

tex tex infinite solution

6.8.
$$\frac{3x-5}{8} = -5x-6 \cdot 8$$
 (multiply by 8!)

Algebra - Unit 1 Extra Practice

I can solve for different variables in literal equations.

1.
$$A = 2(L+W)$$
 Solve for W. $A = 1.51$

$$A = 2(L+W) \text{ Solve for W.}$$

$$A = 2(L+W)$$

2. 3. $\frac{x+y}{3} = 5.3$ (Multiply Solve for x. by 3)

3.
$$\frac{A=4r^2}{4}$$

$$\frac{A}{4}=r^2$$

Solve for
$$r^2$$
.

4. 21. $A = \frac{r}{2L}$ Multiply by 22.

Solve for h.

7 = h 7 = h $6. N \cdot P = \frac{8-C}{N} \cdot N$ Solve for R.