AME Show

Algebra 1, 1st Six Weeks Jest #2 Review Worksheet Show All Work!!!

- 1) What is your goal when solving equations?
 To find a solution for your variable
- 2) How to you move numbers to the other side of an equation when solving for x?
 Use moverse operations: Add <> subtract } Invers operations

 multiply <>> divide } Invers operations
- 3) What is the Golden Rule of solving equations? What you do to the left side, you do to the right. You must keep an equation in balance.

Solve for \dot{x} No work = no credit!

$$7)(7)\frac{x}{7} = 12(7)$$

$$(7)\frac{x}{7} = 84$$

10)
$$-3x - 10 = 6$$

$$+10 + 10$$

$$-3x = 16$$

$$x = -16$$

$$x = -16$$

$$x = -16$$

$$x = -10$$

$$x = -3$$

$$x = -10$$

$$x = -3$$

16)
$$3n - 8 = 29 + 2n$$
 $-2n$
 $-2n$
 $-2n$
 $-2n$
 $+8 + 8$
 -37

5)
$$-4 = -b - 18$$

 $+18$ $+18$
 $(-1) 14 = -b (-1)$

$$8\left(\frac{3}{2}\right) \frac{-2}{3}x = 12\left(\frac{-3}{2}\right)$$

$$\sqrt{2} = -18$$

11)
$$-10 = \frac{-g}{4} + 22$$

 $(-4) -32 = \frac{-g}{4}(-4)$
 $(28 = 9)$
4) $4(2x+3) = -36$

$$3x + 3 = -9$$

$$3x = -12$$

$$2x = -6$$

$$-6x - 10 = 4x - 24$$

$$+6x + 6x + 6x$$

6)
$$4m = -64$$
 $m = -16$

9)
$$2x + 10 = -8$$

$$-10 = -10$$

$$2x = -10$$

$$x = -9$$

$$12)^{(-5)} \frac{h+2}{-5} = -2 (-5)$$

$$h+2 = 10$$

$$-2 -2$$

$$h = 8$$

15)
$$15n - 12 - 5n = 8$$

$$10n - 12 = 8$$

$$+ 12 + 12$$

$$10n = 20$$

$$70$$

$$70$$

$$10 = 2$$

$$-2(3x + 5) = 4(x - 6)$$

$$-6x - 10 = 4x - 24$$

$$+6x + 6x + 6x$$

$$-10 = 10x - 24$$

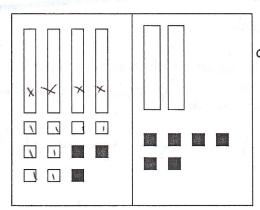
$$+24 + 24$$

$$14 = 10x - 24$$

$$14 = 10x - 24$$

$$14 = 5$$

25)



Simplify... (distribute or CLT)

26)
$$8x + 3x - (11 - 13) - 4x$$

 $8x + 3x - (-2) - 4x$
 $11x + 2 - 4x$
 $1x + 2$

. 28)
$$-2(2x+5)+(4x-6x)$$

 $-4x-10+4x-6x$
 $-6x-10$

(□ 1 unit ■ -1 unit)

a. Write the equation represented by the tiles.

b. Solve the equation below... 4x + 8 - 3 = 2x - 6

$$4x + 5 = 2x - 6$$

$$-2x$$

$$2x + 5 = -6$$

$$2x + 5 = -6$$

$$27) 10a - 3(4a + b) + 2(a - 7b)$$

$$10a - 12a - 3b + 7a - 14b$$

$$-17b$$

$$29) -20g + 7(3h + 3g) - 14h$$

32) The sum of 3 consecutive numbers is 57. What are the numbers?

Define your variable (unknown) X = 15t rumber

Write your equation here: $\frac{x + x + 1 + x + 2 = 57}{3x + 3}$ The 3 numbers are... $\frac{18}{3}$ $\frac{19}{3}$ $\frac{20}{3}$ $\frac{20}{3}$ $\frac{18}{3}$ $\frac{19}{3}$ $\frac{1$

34) Kelly is thinking of a number. Three less than 6 times a number is - 45. Define your variable (unknown) $\underline{\qquad n = number \qquad}$

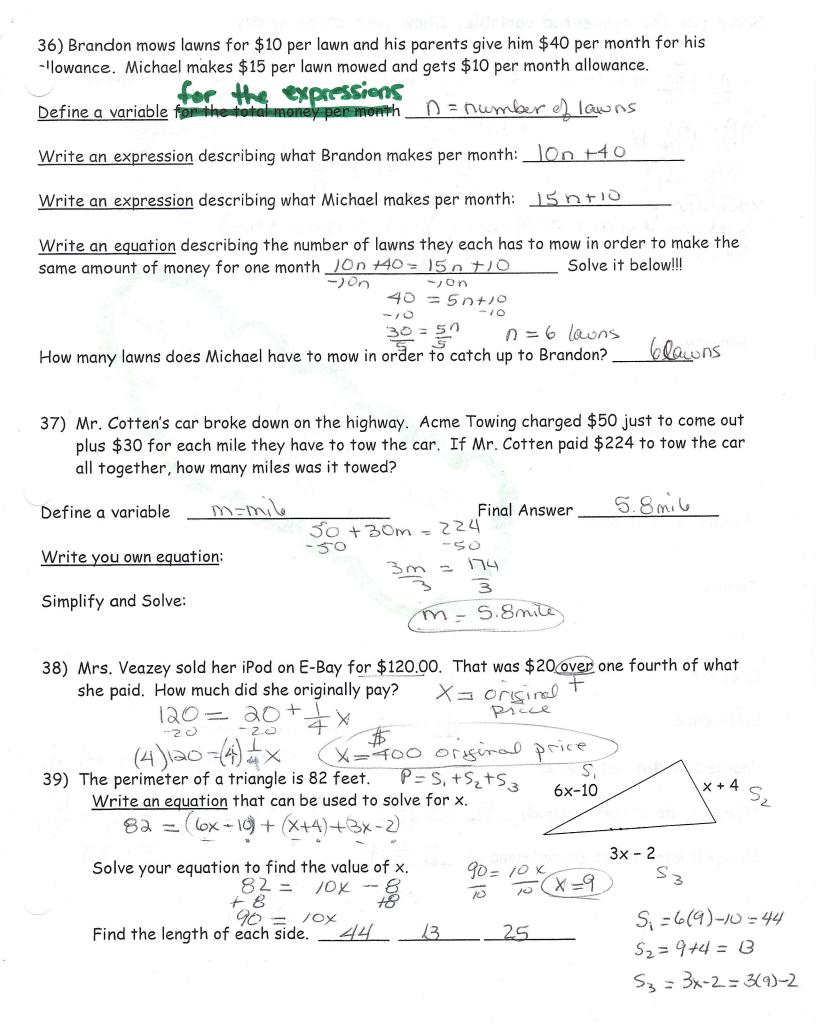
Write your equation here:

$$\frac{6n-3=-45}{+3+3+3}$$

$$\frac{6n=-42}{6}$$

$$0=-7$$

Solve your equation to find the missing number. $\Omega = 7$



Solve for the requested variable. Show your steps neatly!

- 40. $A = \frac{1}{2} \overrightarrow{bh}$; solve for b
- 41. $\pi = \frac{c}{(d)}$; solve for d
- 42. P = 2L + 2W; solve for W

- (2) A (2) b
- $d \pi = \frac{c}{d}$ $d \pi = \frac{c}{d}$ $d = \frac{c}{d}$
- $\frac{P-dL-R\omega}{2}$

Vocabulary:

hook in text book => Glossary: p 5 107 (bouch of book)

- . Solution:
- . Simplify:
- . Additive Inverse:

Multiplicative Inverse:

Isolate

Sum

Quotient

Difference

Change 5ft 4in into inches ____

Change it into all feet (decimal) 5.33 +

Change it into all feet (mixed number) 534

These wow the definitions.

convert ft ->in 5ft (12in) = 60in +4in

in 4 + 4 in $\left(\frac{16+}{12}\right) = \frac{4}{12} = \frac{1}{3}$ 4 5 + .33