Name _____

Date____

Instructions:

• For all equations - Solve. Clearly show ALL steps. Check.

LESSON 3.1 Practice C

4)
$$v + 10.5 = -9.4$$

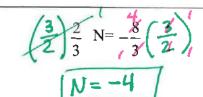
6) m + 6.25 = 3.5

Y=92

M= -2.75

13)
$$-\frac{y}{4} = -23$$

14)



$$C_1 = \frac{2}{3} \cdot \frac{-4}{1} = \frac{-8}{3} = \frac{-8}{3}$$

21) Tallest Mountains Mount Kilimanjaro, the tallest mountain in Africa, is 1088 meters taller than Mont Blanc, the tallest mountain in Europe. Mount McKinley is the highest point in North America at 6194 meters. Mount McKinley is 1387 meters taller than Mont Blanc. How tall are Mount Kilimanjaro and

Mont Blanc? taller then Mt B

<u>KI:</u>



Amt makin ley
6,194 m
and 1,387 m
toller than m

Explain how you got your answers.

22) Car Wash You are working at a car wash to raise money for a charity. By the end of the day, you raised \$342. You charged \$6 for each car wash. How many cars were washed during the day?

KI: \$6/car

Define a variable: $\chi = \frac{1}{2} \circ f \cos 3$

Write an equation:

Answer in a sentence:

They washed 57 cors.

LESSON 3.2 Practice B

1)
$$3n + 14 = 35$$

9)
$$\frac{z}{3} - 8 = -4$$

N=7

Z= 12

LESSON 3.3 Practice A

Check whether the given number is a solution of the equation.

1)
$$6x + 1 - 5x = 7$$
; 2

$$6(2)+1-5(2)=7$$
 $12+1-10=7$
 2 ± 7

12+1-10=7 215NOT 3+7 ASOLUTION

6)
$$\frac{1}{x}(8x-6) = 1;$$
 1

$$\frac{1}{2}(8x-6)=1; 1$$

$$\frac{1}{2}(8(1)-6)=1$$

$$\frac{1}{2}(2)=1$$
1 is a solution

More equations.

10)
$$3a + 2a + 7 = 12$$

17)
$$6w + 5(w-2) = 23$$

X=-1

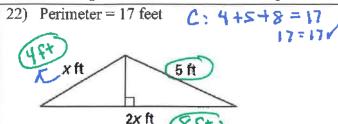
18)
$$7-3(x+2)=4$$

20)
$$\frac{1}{3}(m+6)=4$$

 $\frac{1}{3}m+\frac{1}{2}=\frac{4}{-2}$
 $\frac{1}{3}m=2.3$

LESSON 3.3 Practice A (continued)

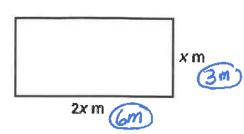
Find the length of each side of the triangle or rectangle. Write an equation!!!! Show your work!



EQ:
$$x + 2x + 5 = 17$$

$$\frac{3x + 5/ = 17}{-x - 5}$$

$$\frac{3x = 12}{3} |x = 4|$$



EQ:
$$2(ax) + 2(x) = 18$$

LESSON 3.4 Practice B

8)
$$4(w+3) = w-15$$

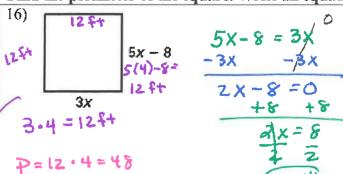
11) $7 + x = \frac{1}{2} (4x - 2)$

w= -9

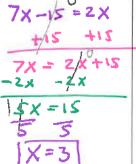
X=8

Find the perimeter of the square. Write an equation!!!! Show your work! Units are in feet.

18)



$$\begin{array}{c|c}
7x - 15 \\
7(3) - 17 \\
6 + 4 \\
2 \cdot 3 = 6 + 4
\end{array}$$



A = 6 . 4 = 24

Perimeter 48 ft

Perimeteris 24ft

LESSON 3.4 Practice B (continued)

19) Saving and Spending Currently, you have \$80 and your sister has \$145. You decide to save \$6 of your allowance each week, while your sister decides to spend her whole allowance plus \$7 each week. How long will it be before you have as much money as your sister?

KI:

Weekly spend \$7 until

Define a variable:

Write an equation:

- amount of money

EQ:
$$80 + 6x = 145 - 7x$$
 $2 = 145 - 7(5)$
 $47x + 7x + 7x$ $410 = 410$

$$\frac{18 \times = 65}{13} \times = 5$$

Answer in a sentence:

After 5 weeks you and your sister will have the same amount of movey (\$110).

LESSON 3.4 Practice C

$$\frac{2}{x+1} = 2x - 5$$

32)
$$2(x-4) + 2x = \frac{1}{2}(8x-16)$$

$$2x - 8 + 2x = 4x - 8$$

$$4x - 8 = 4x - 8$$

33)
$$2(8x-4) + 20 = 3(5x+4)$$

C:
$$2[8(6)-4]+20 = 3[8(6)+4]$$

$$2(-4)+20 = 3(4)$$

$$12 = 121$$