### Test Date: Thurs. Oct. 13 and Fri. Oct 14

# Sole and Check the following equations

$$\frac{c}{5} - 4 = -3$$

Check

$$-2q-5=-11$$

Check

$$\frac{x}{6} - 2 = \frac{5}{12}$$

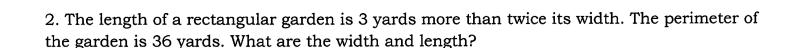
Check

4(a+6)=96	Check
0.5t - 3t + 5 = 0	Check
$\frac{2}{3}x - \frac{5}{8}x = 26$	Check

4n+67=6n-3	Check
5w-15-2w=w+27	Check

### Write and Solve an Equation to answer the question

1. A town has accumulated 2 inches of snow, and the snow depth is increasing by 4 inches every hour. A nearby town has accumulated 7 inches, and the depth is increasing by 2 inches every hour. In about how many hours will the snowfall of the towns be equal?



3. An athlete runs an equal distance 5 days a week. The other 2 days of the week, she runs a total of 13 miles. Write an equation to represent the total numbers of miles run in a week, R, and the number of miles, x, run each of the 5 days. If the athlete ran 53 miles last week, how far did she run each of the first 5 days?

4. Peter has to use the following information to find the original number: "If you double a number and then add 36, you get  $\frac{4}{11}$  of the original number." Write and solve an equation to find the original number.

5. The sum of 2 consecutive numbers is 113. Find the numbers	
Matching:	
_	ving One, None, or Infinitely Many Solutions.
1. $x-(4-x)=0$	
$2. \ 3(2t-6) = 2(3t-9)$	
	N: No Solution
0. 2(5. 0) (	O: One Solution
3. $3(5x-2)-6x=3(3x+2)$	O. One Solution
	I: Infinitely Many Solutions
4. $9x+13=5x-7+4x$	
5. $4n-6n=2n$	

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# Sole and Check the following equations

$$\frac{c}{5} - 4 = -3$$

$$+4 + 4$$

$$5 \cdot \frac{c}{5} = 1 \cdot 5$$

$$c = 5$$

$$F: \frac{c}{3} - 4 = -3$$

#### Check

$$\frac{x}{6} - 2 = \frac{5}{12}$$

$$+2 + 2$$

$$6 \cdot \frac{x}{6} + 2 \cdot \frac{5}{12} \cdot 6$$

$$\frac{29}{212} \cdot \frac{6}{1} = \frac{29}{2}$$

$$x = |4| = \frac{1}{2}$$

### Check

F: 
$$\frac{x}{6} - 2 = \frac{5}{12}$$

S:  $\frac{14\frac{1}{2}}{6} - 2 = \frac{5}{12}$ 
 $\frac{29}{12} - \frac{24}{12} = \frac{5}{12}$ 
 $\frac{29}{12} - \frac{24}{12} = \frac{5}{12}$ 
 $\frac{5}{12} = \frac{5}{12}$ 

$$4(a+6)=96$$
 $4a+24=96$ 
 $-24=72$ 
 $4a=72$ 
 $4=18$ 

$$4(a+6) = 96$$

$$4a+24 = 96$$

$$-24 = -24$$

$$4a = 72$$

$$4$$

$$4 = 18$$

$$0.5t - 3t + 5 = 0$$

$$-2.5t + 5 = 0$$

$$-5 - 5$$

$$-2.5t = -5$$

$$-2.5 = -2.5$$

$$t = 2$$

$$\frac{\frac{2}{3}x - \frac{5}{8}x = 26}{\frac{16}{24}x - \frac{15}{24}x = 26}$$

$$\frac{\frac{24}{1}}{1} \cdot \frac{1}{24}x = 26 \cdot \frac{24}{1}$$

$$\boxed{X = 624}$$

# Check

### Check

## Check

F: 
$$\frac{2}{3} \times -\frac{5}{8} \times = 26$$

$$\frac{2624}{31} - \frac{56248}{81} = 26$$

# ENOUGH UMAR

$$4n+67 = 6n-3$$
 $-4n$ 
 $67 = 2n-3$ 
 $+3$ 
 $70 = 2n$ 
 $2$ 
 $35 = n$ 

Check
$$F: 4n+67 = 6n-3$$

$$S: 4(35)+67 = 6(35)-3$$

$$140+67 = 210-3$$

$$S: 207 = 207$$

$$5w-15[-2w] = w+27$$

$$-3w-15 = w+27$$

$$-w = -w$$

$$2w-15 = 27$$

$$+15 + 15$$

$$2w = 42$$

$$z = 21$$

Check
$$F: 5 \omega - 15 - 2\omega = \omega + 27$$

$$5: 5(21) - 15 - 2(21) = 21 + 27$$

$$5: 105 - 15 - 42 = 21 + 27$$

$$48 = 48$$

## Write and Solve an Equation to answer the question

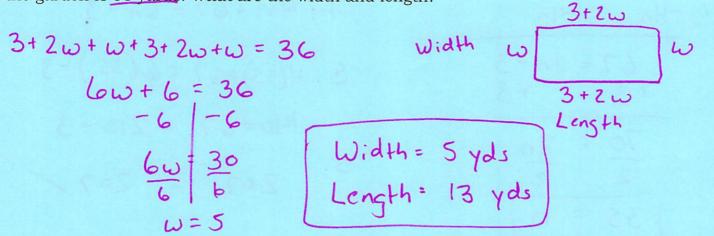
1. A town has accumulated 2 inches of snow, and the snow depth is increasing by 4 inches every hour. A nearby town has accumulated 7 inches, and the depth is increasing by 2 inches every hour. In about how many hours will the snowfall of the towns be equal?

Town A = Town B Let 
$$h = hours until 2 + 4h$$
 =  $7 + 2h$  Snowfell is =  $-2$ 

4h =  $5 + 2h$ 

$$-2h$$

2. The length of a rectangular garden is 3 yards more than twice its width. The perimeter of the garden is 36 yards. What are the width and length?



3. An athlete runs an equal distance 5 days a week. The other 2 days of the week, she runs a total of 13 miles. Write an equation to represent the total numbers of miles run in a week, R, and the number of miles, x, run each of the 5 days. If the athlete ran 53 miles last week, how far did she run each of the first 5 days?

R= 
$$5 \times + 13$$

Let R = Total miles in the week

Let  $x = 4$  of miles run

each of the  $x = 5$  days

The athlete ran

8 miles each of the  $x = 5$  days

8 miles each of the  $x = 5$  days

4. Peter has to use the following information to find the original number: "If you double a number and then add 36, you get  $\frac{4}{11}$  of the original number." Write and solve an equation to find the original number. Let x = Peter's #

$$\frac{11}{1} (2x + 36) = (\frac{4}{11} x) \frac{11}{1}$$

$$22x + 396 = 4x$$

$$-22x - 22x$$

$$396 = -18x$$

$$-18 - 18$$

$$-22 = x$$

Peters number

each of the 5 days

5. The sum of 2 consecutive numbers is 113. Find the numbers

$$X + X + 1 = 113$$

$$2x + 1 = 113$$

$$-1 - 1$$

$$2x = 112$$

$$2 = 56$$

The 2 consecutive # 5 one 56 and 57

Matching:

Classify the following equations as having One, None, or Infinitely Many Solutions.

1. 
$$x-(4-x)=0$$
  
 $x-4+x=0$ 

N: No Solution

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

$$15x-6-6x=9x+6$$

$$9x-6=9x+6$$

$$-6x6$$
4.  $9x+13=5x-7+4x$ 

O: One Solution

 $\frac{1}{9x+13} = \frac{3x-7+4x}{9x+13} = \frac{9x-7}{9x} = \frac{9x-7}{13x-7}$ 

 $_{-5}$ . 4n - 6n = 2n

양박 0-0

I: Infinitely Many Solutions