29) Solve then graph

5x$\geq $30

1. {x|x>6}
2. {x|x$\geq 6\}$
3. {x|x<6}
4. {x|x$\leq $6}

30) Trains A and B are traveling in the same direction on parallel tracks. Train A is traveling at 80 miles per hour and train B is traveling at 100 miles per hour. Train A passes a station at 3:5 a.m. If Train B passes the same station at 3:30 a.m., at what time will train B catch up to train A.

When will train B catch up with train A? \_\_\_\_:\_\_\_\_\_ am or pm

42) Simplify

2[70-(9-80)]

53. Translate to an algebraic expression.

The product of 33% and some number

The translation is \_\_\_\_\_\_\_(use the percentage as a decimal use d to represent some number)

65) Solve by the elimination method

7r-6s=2

6r

7s=111

What is the solution of the system

66)The equation y=1777x+27,153 can be used to predict the number y of gun deaths in the united states x years after 2000, that is x=0 corresponds to 2000,x=3 corresponds to 2006 and 2009. In what year will the number of gun deaths be 7606

The predicted gun deaths in 2006 will be\_\_?\_\_

The predicted gun deaths in 2009 will be \_\_?\_\_\_

The predicted number of gun deaths will be 7606 in what year \_\_\_?\_\_

201) Evaluate

$$z=\frac{y}{9} for z=70 and y=20$$

$z+\frac{y}{9}$=\_\_?\_\_ simplify your answer

239) solve Type an inequality

-0.7x<-49

The solution is {x|\_\_\_?}

252) Solve the following system of equations

X+4y=6 (1)

X=7-4y (2)

What is the solution of the system type an ordered pair

263) in 1995 the life expectancy of males in a certain country was 66.9 years. IN 2000, it was 70.6 years. Let E represent the life expectancy in year t and let t represent the number of years since 1995.

The linear function E(t) that fits the data is

E(t)=\_\_?\_\_t+\_\_?\_\_ ( round to the nearest tenth)

Us the function to predict the life expectancy of males in 2008.

E(13)=\_\_?\_\_ ( round to the nearest tenth)

264) solve then graph

y-5>-20

the solution is {y|y>\_\_?\_\_}

275) Find the slope and the y-intercept

f(x)=-10x-8

the slope is \_\_?\_\_

the y-intercept is (0,\_\_?\_\_)

287)Determine whether (-7,0) is a solution of 2x+3y=-1

Is (-7,0) a solution to the equation? Yes or no

298) Collect like terms

10m+5n-6m-7n=\_\_?\_\_

299) Find the slope if it exists, of the line containing the pair of points

(1,2) and (9,-4) The slope m=\_\_?\_\_ ( simplify your answer use an integer or a fraction )

500) 20% of what number is 10? \_\_?\_\_

551) Solve

0.8x+5$\leq 1.6x-2$

The solution is {x|x\_\_?\_\_ \_\_?\_} ( simplify your answer type an inequality symbol then an integer or a decimal)

562) Solve using the addition and multiplication principles

1+4x<9

The solution set is {x|x\_\_?\_\_ \_\_?\_\_} (Type an inequality symbol then type an integer or a fraction )

573) Solve -17$\leq 3x-6\leq -1$

The solution is {x|\_\_?\_\_$\leq x\leq \\_\\_?\\_\\_\}$

584) the length of a rectangle is fixed at 24cm. what widths will make the perimeter greater than 82cm?

The with must be greater than \_\_?\_\_cm

600) Solve by the substitution method

9x+5y=-58

 x=-5-2y

what is the solution of the system? ( Type an ordered pair )