1.)

Solve the Equation:

$$20 = p + 4$$

2.)

Write an equation to describe following statement:

The difference of a number and 5 is 22

3.)

Students at a school went on a trip. The given equation models the total cost of the trip, where x is the number of students who went on the trip.

$$18x = 900$$

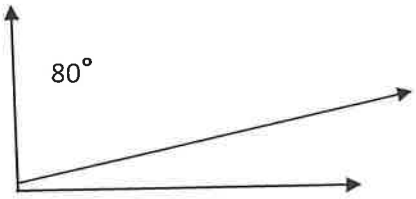
How many students went on the trip?

4.)

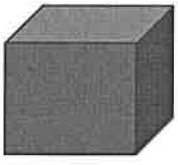
Kari wants to find the measure of the missing angle. She knows the sum of the 2 angles is 90 degrees.

Write an equation to represent this situation.

Using your equation solve for the missing angle, x



5.)



6 cm

Find the volume of the cube.

Volume = s^3

6.)

Solve the Equation:

$$20 = m - 66$$

7.) Solve the Equation: $12f = 144$	8.) Solve the Equation: $11 + m = 60$
9.) A bus is traveling to Miami. The bus is moving at 70 miles per hour,. Write an equation to show the relationship between the distances traveled, ***d***, and the time, ***t***. ***Identify the independent and dependent variables.***	10.) Bobby runs 300 meters in one minute. Write an equation to relating distance, ***d***, traveled to the time, ***t***, in minutes. How far would he run after 5 minutes?
11.) Holly has three times as many sweatshirts as her sister, Molly. Write an equation to show the relationship of sweatshirts Holly has, *h,* and the number of sweatshirts Molly has, *m.* Use your equation to find the number of sweatshirts Holly has when Molly has 12 sweatshirts.	12.) Sam has $54.50 saved up. He plans to save an additional $12.25 per month. Write and equation to show the relationship of ***m***, number of month, to ***t***, total saved.

13.) Solve the Equation: $2y = 40$	14.) Solve the Equation: $\frac{x}{5} = 65$
15.) Heather is dog sitting and she charges $12 per hour. Write an equation to show the relationship of hours, h, worked to total earnings, *e*. ***Identify the independent and dependent variables.***	16.) When graphing, on what axis does the independent variable go? When graphing on what axis does the dependent variable go?
17.) A train travels at constant rate of 80 miles per hour. Write an equation to relating distance, ***d***, traveled to the time, ***t***, in hours.	18.) A bowling alley charges a flat fee of $3 for shoes and $5 per game. Write an equation relating total cost, *c,* to the number of games played, *g.* ***Identify the independent and dependent variables.***

19.)

12.5 cm

Find the volume of the cube.
Volume = s^3

20.)

Solve the Equation:

$$\frac{x}{3} = 14$$

21.)

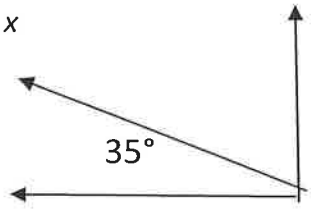
Sara bought 8 apples and *b* bananas. She had 15 total pieces of fruit. Write an equation to show the SUM of apples and bananas Sara brought.

Then, solve for *b*.

22.)

Landan wants to find the measure of the missing angle. He knows the sum of the 2 angles is 90 degrees.

Write an equation to represent this situation. Using your equation solve for the missing angle, *x*



23.)

Bradyn has three times as many Pokeman cards than Fred. Write an equation to represent this situating using *f* to represent the number of cards Fred has and *b* to represent the number of cards Bradyn has.

24.)

Matt pays $25 a month for his gym membership, plus an additional $6.50 for each fitness class he participates in. Write an equation to describe the relationship in the total monthly charge, *m*, and *c*, classes he takes.

If Matt participates in 5 classes this month, how much will he pay?

1.)

Solve the Equation:

$$20 = p + 4$$

$-4 \qquad -4$

$16 = p$

2.)

Write an equation to describe following statement:

The difference of a number and 5 is 22

$n - 5 = 22$

3.)

Students at a school went on a trip. The given equation models the total cost of the trip, where *x* is the number of students who went on the trip.

$18x = 900$

How many students went on the trip?

$\frac{18x}{18} = \frac{900}{18}$

$x = 50$ students

4.)

Kari wants to find the measure of the missing angle. She knows the sum of the 2 angles is 90 degrees.

Write an equation to represent this situation.

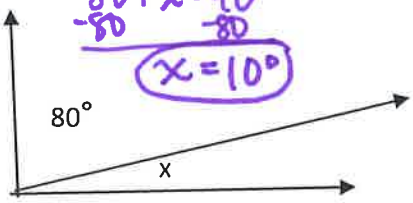
$80 + x = 90$

Using your equation solve for the missing angle, *x*

$80 + x = 90$

$-80 \qquad -80$

$x = 10°$



5.)

6 cm

Find the volume of the cube.

***Volume* = s^3**

$6^3 = 6 \cdot 6 \cdot 6 = 216\ cm^3$

6.)

Solve the Equation:

$$20 = m - 66$$

$+66 \qquad +66$

$86 = m$

7.)

Solve the Equation:

$$\frac{12f}{12} = \frac{144}{12}$$

$f = 12$

8.)

Solve the Equation:

$$11 + m = 60$$

$-11 \quad -11$

$m = 49$

9.)

A bus is traveling to Miami. The bus is moving at 70 miles per hour,. $70t$

Write an equation to show the relationship between the distances traveled, ***d***, and the time, ***t***.

$d = 70t$

* distance = speed × time

Identify the independent and dependent variables.

I = time (hours)

D = distance

10.)

Bobby runs 300 meters in one minute.

Write an equation to relating distance, ***d***, traveled to the time, ***t***, in minutes.

$d = 300t$

How far would he run after 5 minutes?

$d = 300 \cdot 5$

$d = 1500$ meters

11.) $= \quad 3x$

Holly has three times as many sweatshirts as her sister, Molly. Write an equation to show the relationship of sweatshirts Holly has, *h*, and the number of sweatshirts Molly has, *m*.

$h = 3m$

Use your equation to find the number of sweatshirts Holly has when Molly has 12 sweatshirts.

$h = 3 \cdot 12$

$h = 36$ sweatshirts

12.)

Sam has $54.50 saved up. He plans to save an additional $12.25 per month. $+ \quad 12.25m$

Write and equation to show the relationship of ***m***, number of month, to ***t***, total saved.

$t = 54.50 + 12.25m$

13.)

Solve the Equation:

$$\frac{2y}{2} = \frac{40}{2}$$

$y = 20$

14.)

Solve the Equation:

$$5 \cdot \frac{x}{5} = 65 \cdot 5$$

$x = 325$

15.)

Heather is dog sitting and she charges $12 per hour. Write an equation to show the relationship of hours, h, worked to total earnings, *e*.

$12h = e$

Identify the independent and dependent variables.

I = hours

D = total earnings

16.)

When graphing, on what axis does the independent variable go?

x-axis

(I-x)

When graphing on what axis does the dependent variable go?

y-axis

17.)

A train travels at constant rate of 80 miles per hour.

distance = speed × time

Write an equation to relating distance, ***d***, traveled to the time, ***t***, in hours.

$d = 80t$

18.)

A bowling alley charges a flat fee of $3 for shoes and $5 per game. Write an equation relating total cost, *c*, to the number of games played, *g*.

$3 + 5g = c$

Identify the independent and dependent variables.

I = # of games

D = total cost

19.)

12.5 cm

Find the volume of the cube.

***Volume* = s^3**

$12.5^3 = 12.5 \cdot 12.5 \cdot 12.5 =$

1953.125 cm^3

20.)

Solve the Equation:

$3 \cdot \frac{x}{3} = 14 \cdot 3$

$x = 42$

21.)

Sara bought 8 apples and *b* bananas. She had 15 total pieces of fruit. Write an equation to show the SUM of apples and bananas Sara brought.

$8 + b = 15$

Then, solve for *b*.

$8 + b = 15$

$-8 \quad -8$

$b = 7$

7 bananas

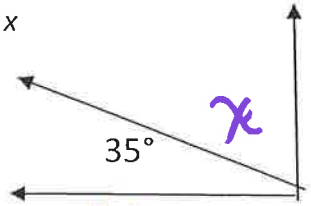
22.)

Landan wants to find the measure of the missing angle. He knows the sum of the 2 angles is 90 degrees.

$35 + x = 90$

Write an equation to represent this situation.

Using your equation solve for the missing angle, *x*



$35 + x = 90$

$-35 \quad -35$

$x = 55°$

$x = 55°$

23.) $b = 3x$

Bradyn has three times as many Pokeman cards than Fred. Write an equation to represent this situating using *f* to represent the number of cards Fred has and *b* to represent the number of cards Bradyn has.

$b = 3f$

24.)

Matt pays $25 a month for his gym membership, plus an additional $6.50 for each fitness class he participates in. Write an equation to describe the relationship in the total monthly charge, *m*, and *c*, classes he takes.

$m = 25 + 6.50c$

If Matt participates in 5 classes this month, how much will he pay?

$m = 25 + 6.50 \cdot 5$

$m = 25 + 32.50$

$= \$57.50$