Umit 6 Take Home and Check - Tier C

1)
$$b + 10 - 3 = 44 \div 2$$

2)
$$n - 8 = 24$$

$$n - 8 = 24$$

+8 +8

3)
$$h - 6\frac{1}{3} = 32$$

4)
$$-25 = j + 5$$

$$-25 = j + 5$$

 $-5 = j + 5$
 $-30 = j$

5)
$$a-11 = -14$$

6)
$$-29 + b = -16$$

$$-29+b=-16$$

 $+29$
 $+29$

7)
$$-9-r = 12$$

$$-9^{2}-r=12$$
 $+9$
 $-r=21$
 $r=-21$

8)
$$-5 = 4s + 6$$

$$\begin{array}{c}
-5 = 4s + 6 \\
-6 & 76
\end{array}$$

$$\frac{-11}{4} = 4s$$

$$\frac{-11}{4} = 5$$

9)
$$3\frac{4}{5}y = -72$$

$$3\frac{1}{5}y = -72$$

$$\frac{19}{5}y = -\frac{72}{19} \cdot \frac{5}{19}$$

$$y = -\frac{360}{19} = -\frac{18}{19}$$

10)
$$22 = \frac{p}{36}$$

$$22 = \frac{P}{36}$$
, 36
 36

$$-15n = 75$$

$$\frac{-156}{-15} = \frac{75}{-15}$$

12)
$$18 = -\frac{4}{9}m$$

$$\frac{189}{1} - \frac{9}{42} = \frac{-81}{2} = m$$

13)
$$\frac{1}{8}h = 19$$

$$h = 19.8$$
 $h = 152$

14)
$$\frac{c}{5} = -20$$

$$\frac{C}{5} = -20 \times 5$$

$$15) \qquad x + 7 \le -18$$

Let
$$x = goldfish$$

Let $3 = 4 = clownfish$
 $8 + 4 \times$

20) At the Boston Aquarium there is a fish tank, which has 73 fish in it. There are 3 more than 4 times as many clown fish as goldfish. How many of each type of fish are there?

$$73 = 3 + 4x + x$$
 $73 = 3 + 5x$
 $73 = 5x$
 $5 = 5$
 $14 = x$ goldfish

 $73 - 14 = 59$ clown fish

21) In the North Pole there are 186 male and female penguins, which were tagged. 30 less than 5 times the number of males were tagged than females. How many of each type were there?

Let
$$x = females$$

Let $5x-30 = males$
 $x + 5x - 30 = 186$
 $+30 + 30$
 $6x = 216$
 $6x = 36 = 150$ males

$$x + 3x + 10 = 250$$

 $4x + 10 = 250$
 -10
 $4x = 240$
 $4x = 240$

Let
$$x = Mary$$

 $6x - 18 = Gina$
 $x + 6x - 18 = 126.50$
 $1x - 18 = 126.50$
 $+ 18$
 $-18 = 144.50$
 $-18 = 144.50$
 $-18 = 144.50$
 $-18 = 144.50$
 $-18 = 144.50$

$$x + x + 1 = 99$$

 $2x + y = 99$
 $71 - 1$

$$\frac{374}{2} = \frac{2}{2}x$$

$$26) \qquad 3y + 7 = -6y - 56$$

$$27) .8k + 7 = 0.7k + 1$$

$$0.8K+7=0.7K+1\\-0.7K -9.7K+1$$

$$0.1K+7=1-7$$

$$0.1K=-6$$

$$0.1$$

K=-60

$$28) - 6 - 8c = 3(c + 4)$$

$$28) - 6 - 8c = 3(c + 4)$$

$$-6 - 8c = 3c + 12$$

$$+8c + 8c$$

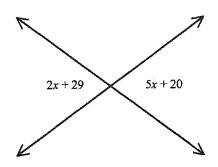
$$-6 = 11c + 12$$

$$-13 = 11c + 12$$

$$-14c = -18$$

$$-18$$

29)Solve for x and then tell the measure of each angle. What is the name of this angle relationship?



29)

Vertical angles

$$2x + 29 = 5x + 20$$

$$-2x$$

$$-2x$$

$$-20$$

$$-20$$

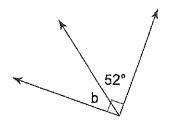
$$-20$$

$$3x = 9$$

$$3x = 9$$

$$3x = 3$$

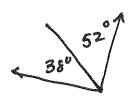
30)Solve for x and then tell the measure of each angle. What is the name of this angle relationship?



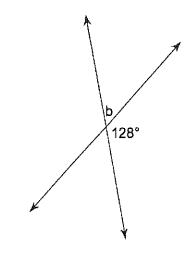
30) Complementary angles

$$52/4 b = 90$$

- $52/2 - 52/2$



31)Solve for x and then tell the measure of each angle. What is the name of this angle relationship?



31) supplementary angles

$$b + 128 = 180$$
 $-128 - 128$

