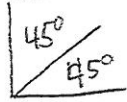


Angles

Compliment two angles are complimentary if they add up to 90°



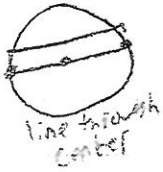
Supplementary - if angle add up to 180°



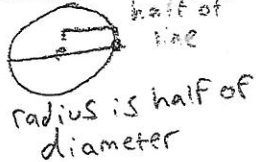
linear pair - line

Finding area and Circumference of a circle if $\pi = 3.14$ with radius

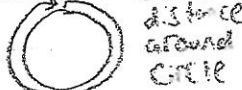
diameter



radius



Circumference



$$C = 2\pi r$$

$$C = \pi d$$

area



$$A = \pi r^2$$

$$A = \pi \left(\frac{d}{2}\right)^2$$

□ = area

← remember PEMDAS

Solving linear equality

$$-3w + 9 > \frac{3}{4}w - 1$$

① Find Least common denominator if more than one fraction $\frac{1}{4}$ & $\frac{1}{5} = \frac{5}{20}$

② if just 1 use denominator and multiply everything by denominator

$$4 \cdot (-3w + 9) > 4 \left(\frac{3}{4}w - 1\right) \quad \text{distribute}$$

$$-12w + 36 > \frac{3}{1}w - 4$$

Angles

Acute

has a measure

0-90



Right

90°



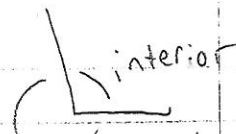
Obtuse

measure 90-180°



Straight

180°



exterior

$$I + E = 360$$

OK to Share CP 09-2011

Percentage Problems

① 207.5 is what percent of 83

$$\frac{207.5}{83} = \frac{P}{83}$$

decimal $\Rightarrow 2.5 = P$

2.50 %

② what is 144% of 93.75

$$N = \frac{144}{100} \cdot 93.75$$

is =

③ mult. by decimal - Don't forget to subtract

$$\begin{array}{r} 135 \\ \times 25 \\ \hline 675 \\ 2700 \\ \hline 3375 \end{array}$$

Percent from price

- careful of an "Item on Sale"

costs 20% of price = no subtract from price

④ A suit is being sold for \$391. this is a 32% discount from the original price

the sale price is 32% less than the original price

so the sale price is only $100\% - 32\% = 68\%$ of the original price

$$391 = .68P$$

$$P = 575$$

⑤ Percent word Problems

price of a cup of coffee 2.45 yesterday. the price fell to 2.10
what's the percentage decrease?

- first find how much decreased from yesterday $2.45 - 2.10 = .35$

- to find rate of decrease we divide the amount of decreased by regular price, $\frac{.35}{2.45} = .1428$ into percent (decimal over 2)

$$\text{Percent decrease} = 14.28\%$$

Percent increase is same process... it'd be Percent increase = 14.28

$$\frac{\text{difference}}{\text{original price}} = \frac{\text{Percentage increase}}{\text{Percentage decrease}}$$