# Problems on Analytical ability.

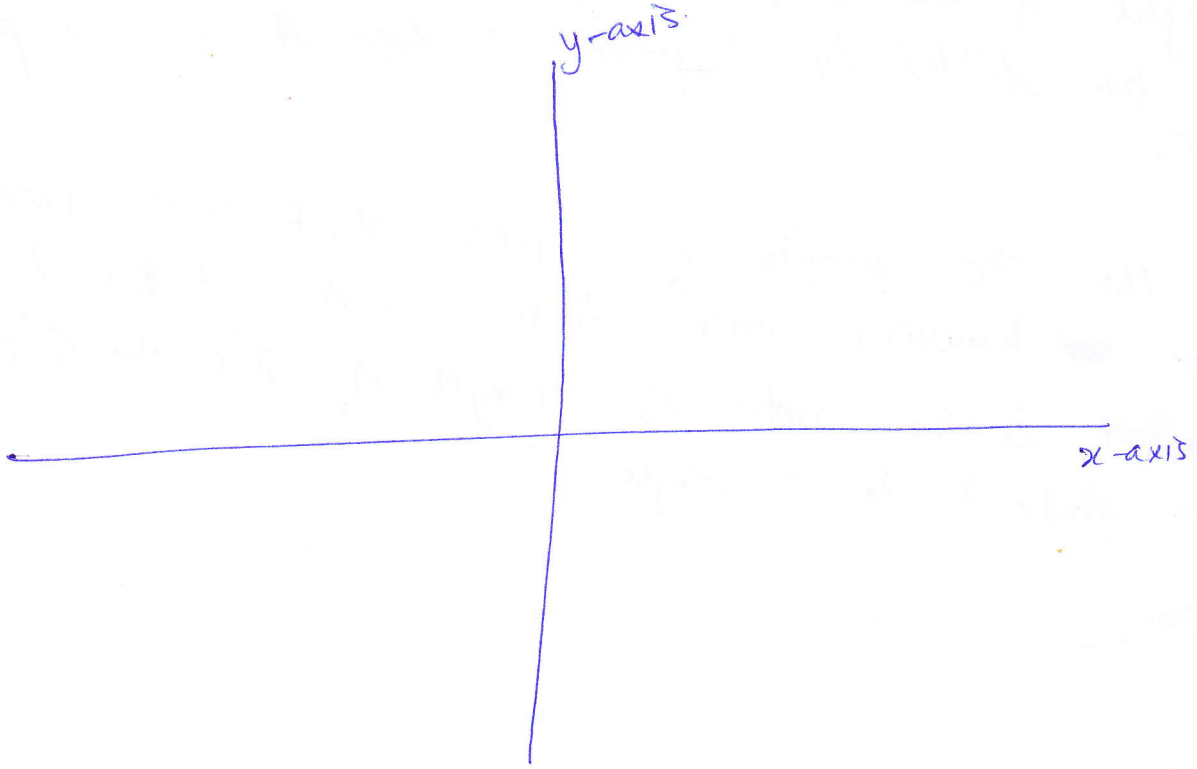
1) 30 people are needed to lift up a car from a trench. Each person who is lifting that car is of one of three strength levels: (A), (B) & (C). We also know that 5 people of type A and 2 of type B can together lift a smaller car that is half the weight of the bigger car. That same smaller car can also be lifted by 3 people of type A and 4 people of type B.

(i) If the 30 people of types A, B, & C needed for the heavier car were 5 A's, 5 B's & 20 C's. Then what is the ratio of strength of A's to C's? (i.e. a single A to a single C).

Problem 2)

if $a+b < c$ and $a+c < b$

then on a graph where the y-axis has all possible values of $a$, and x-axis has all possible values of $|b-c|$, plot the feasible region for values of $a$, for given values of $|b-c|$.



Problem 3

If Tom is smarter than Adam and Adam is not as smart as Cloe, but Cloe and Tom are both smarter than Elaine, then is Adam smarter than Elaine? given that Eric is not as smart as Elaine or Tina, and Tina is smarter than Adam.

(a) Yes.

(b) No.

(c) Not possible to say from given data.

Problem 4.

If 20 men and 10 women can win a tug of war against another team, and if each of 40 women is of the same caliber as each of the 10 women can win against the same team. How many men of the same caliber as each of the 20 men can win against the same team.?

(Find the minimum number of men needed)

Problem 5.

If a home can be ~~built~~ built by 20 workers in 3 months, and another home can be built by 50 workers in 2 months, should Donna pay by number of workers employed OR by number of months elapsed for the first home? Rate for workers is $50 K/worker and rate for elapsed months is $250 K/month. The pricing is such that you either pay for workers or you pay for elapsed time, but NOT both.

Problem 6

If the price of gold can fall with 30% chance and rise with the obvious chance (70%) and the price of silver can fall with 2% chance and rise with 3% chance and stay the same with the obvious chance, if you have $1000 to invest what would you invest in and why?

1b) What should you invest in if you wanted to use the money next month for some other purchase essential to your college preparation?