## **KINZA BATCH - 60**

# PAST PAPER 2016

## MATHS POTION

#### **SECTION-II**

Q. No. 10. (a) Define and draw the following: (2½ each)

(i) Rightangle triangles (ii) Equilateral triangles

(b) There are nine students in a group having ages 15, 15, 16, 16, 16, 17, 17, 18,

19. Calculate mean, medium, mode and range of their ages also define the above mentioned terms:

Q. No. 11. (a) A distribution company provides households to departmental stores within a 50

kilometers radius. The table below shows how far each departmental store is from the godown of the distribution company.

Distance from the godown Number of Stores

- 10 kilometers or less03
- 11 to 20 kilometers15
- 21 to 30 kilometers 26
- 31 to 40 kilometers20
- 41 to 50 kilometers 16
- (i) How many stores does the distribution company serve?
- (ii) What is the most common distance of stores from the company's godown?

(iii) How many stores are 35 Km or more from the godown?

(iv) What percentage of stores are 31 Km or more from the godown?

(b) Read the following carefully and answer the questions following: Ahmad, Ali, Akbar, Nasir and Shehbaz are students of a college having different heights and weights. Ahmad weighs thrice as much as Ali and Ali weighs 5 times as much as Akbar. Akbar weighs half as much as Nasir and Nasir weighs half as much as Shehbaz.

(i) Who is the heaviest in weight?

(ii) Who is the is the lightest in weight?

- (iii) Shehbaz is lighter in weight than which of the two students?
- (iv) Shehbaz is heavier than which of the two students?
- (v) Show the descending order of weights of the students?

Q. No. 12. (a) Classification of blood groups is based on the presence or absence of inherited

antigenic substances on the surface of red blood cells. In a survey of British population the blood group distribution among 1000 people was as follows: 300 had blood group A, 325 had blood group B, 250 had O and 125 AB. Out of this group a person was selected at random, calculate his probability of having blood group AB

(b) Five friends Ahmad, Ali, Akbar, Nasir and Shehbaz went on summer vacation to five cities namely V, W, X, Y and Z by five different modes of transport, that is by bus, train, aeroplane, car and boat from point A. Akbar went to Y by car and Ali went to X by air. Nasir travelled by boat whereas Shehbaz went by train. For X and W there is no bus service. The person who went to X did not use boat to travel. Now answer the following questions.

(i) How did Ahmad travel and where did he go?

(ii) Which mode of transport was used by the person who travelled to X city?

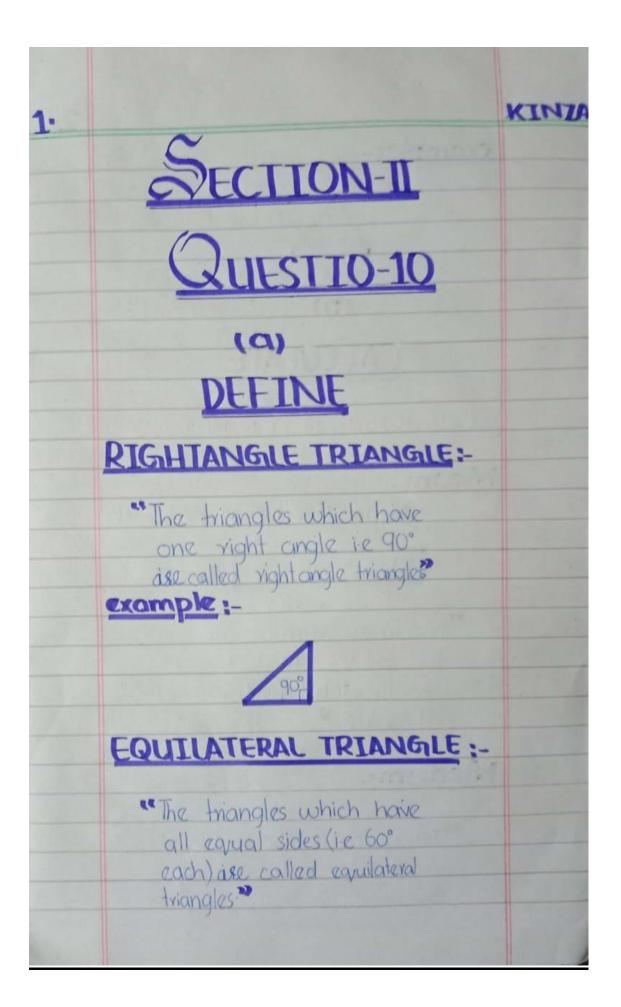
# Q. No. 13. (a) Differentiate between primary and secondary mental abilities. How the general

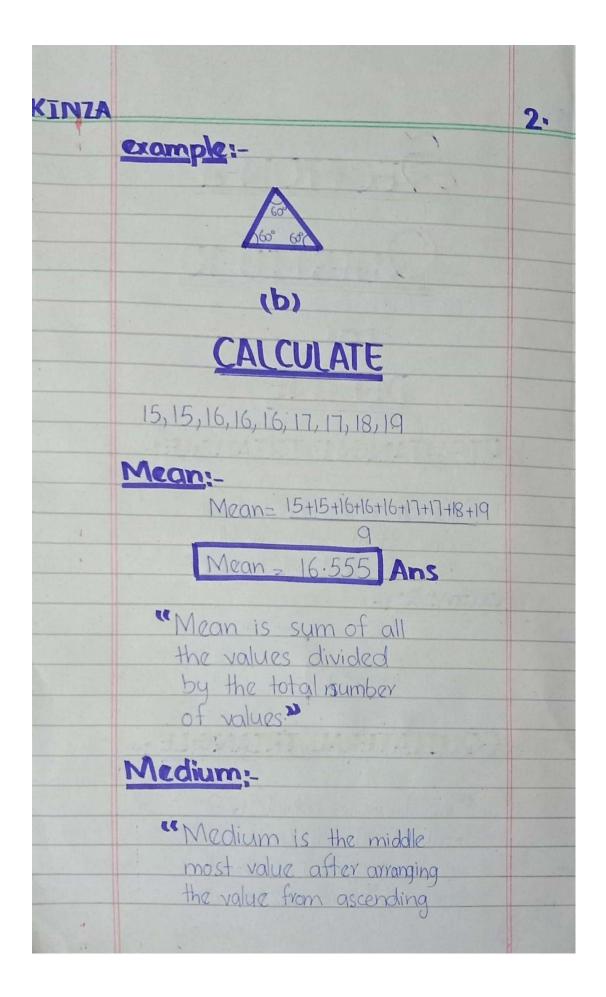
mental ability scales differ from IQ test.

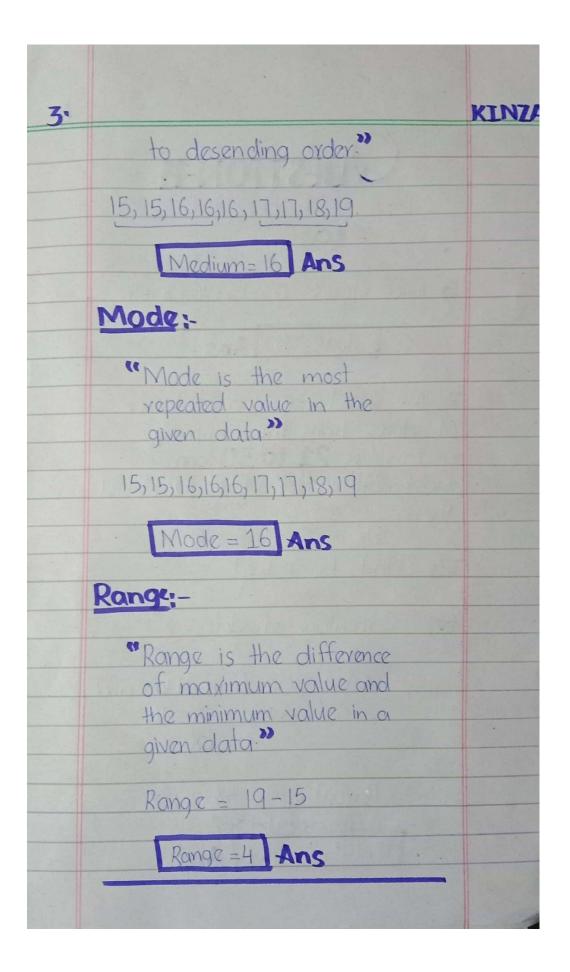
(b) Y = mX + C is an equation of straight line. Draw a graph showing relationship

between X and Y and relate the equation to the slope and intercept on the graph.

# <u>NOTE: NOT ATTEMPTED QUESTION 13, PLEASE EXPLAIN BOTH</u> <u>PARTS</u>

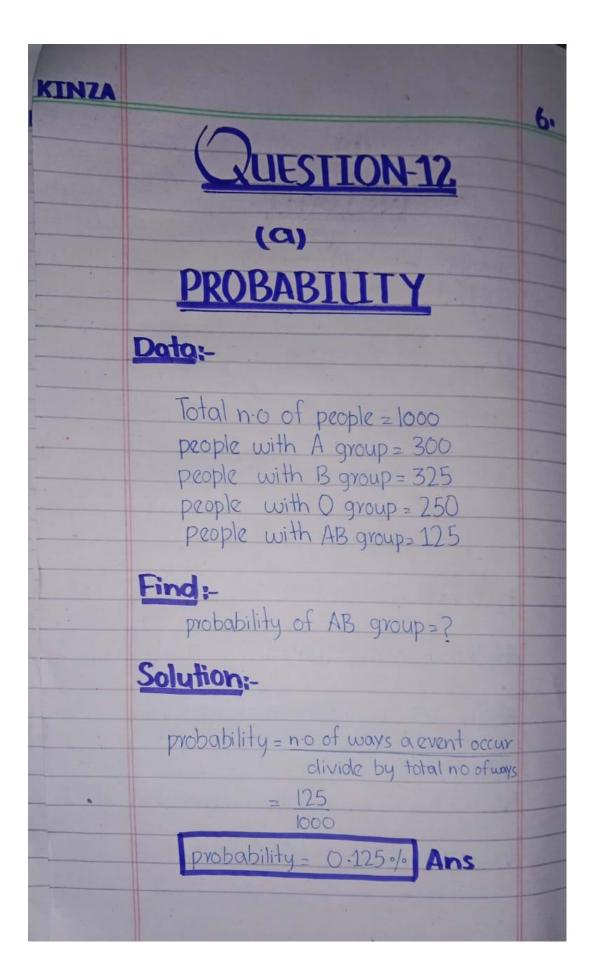






4. KINZA QUESTION-11 (a) i) Total stores = 03+15+26+20+16 Stores = 80 Ans in The most common distance of stores from the company's godown is 21 to 30 km as most number of stores (26) exist there. iii) Can't be solved. iv) Percentage of stores \_? Total store from 31 km and more = 20 + 16= 36 Percentage =  $\frac{9}{480} \times \frac{5}{400}$ Percentage= 45-1. Ans

5  
(b)  
Weight of Shehbaz= 
$$x$$
  
Weight of Shehbaz=  $x$   
Weight of Akbar =  $1, \frac{x}{2}, \frac{x}{2}, \frac{x}{2}$   
 $15, \frac{x}{4}, 5, \frac{x}{4}, \frac{x}{2}, \frac{x}{2}, \frac{x}{4}$   
 $15, \frac{x}{4}, 5, \frac{x}{4}, \frac{x}{2}, \frac{x}{2}, \frac{x}{4}$   
 $15, \frac{x}{4}, 5, \frac{x}{4}, \frac{x}{2}, \frac{x}{2}, \frac{x}{4}$   
 $15, \frac{x}{4}, \frac{x}{4$ 



1. KINZA (b) Data:- $Akbar \rightarrow Y \rightarrow Car$ Ali  $\longrightarrow X \rightarrow \text{Aevoplane}$ Nasir -> V/W/Z -> boat Shehbaz  $\rightarrow V/W/Z \rightarrow train$ Ahmad  $\rightarrow V/Z \rightarrow bus$ is Ahmad travelled by bus and went to Nor Z city. ii) The person who travelled to X city used Aeroplane. The End Queries 1) Can't understand Question 13 (a&b), please explain for my understanding. 2, Any Practice book to suggest? Please let me know.