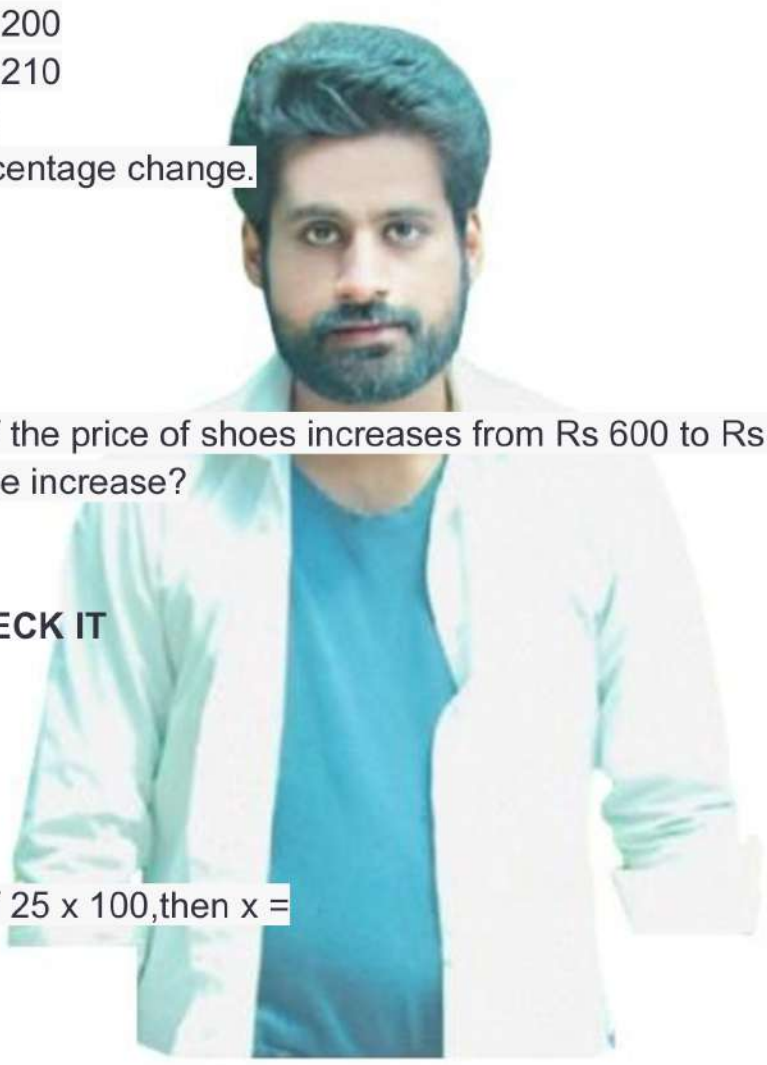
MTH001 FINAL TERM PAST PAPER
SOLVED BY VU TEAM HADI

QUESTION:

If
Initial value = 200
Final Value = 210
Increase = 10
Then the Percentage change.
10%
5%
20%
15%



QUESTION: If the price of shoes increases from Rs 600 to Rs.900, what is the percentage increase?

(600/3)%
(900/6)% **CHECK IT**

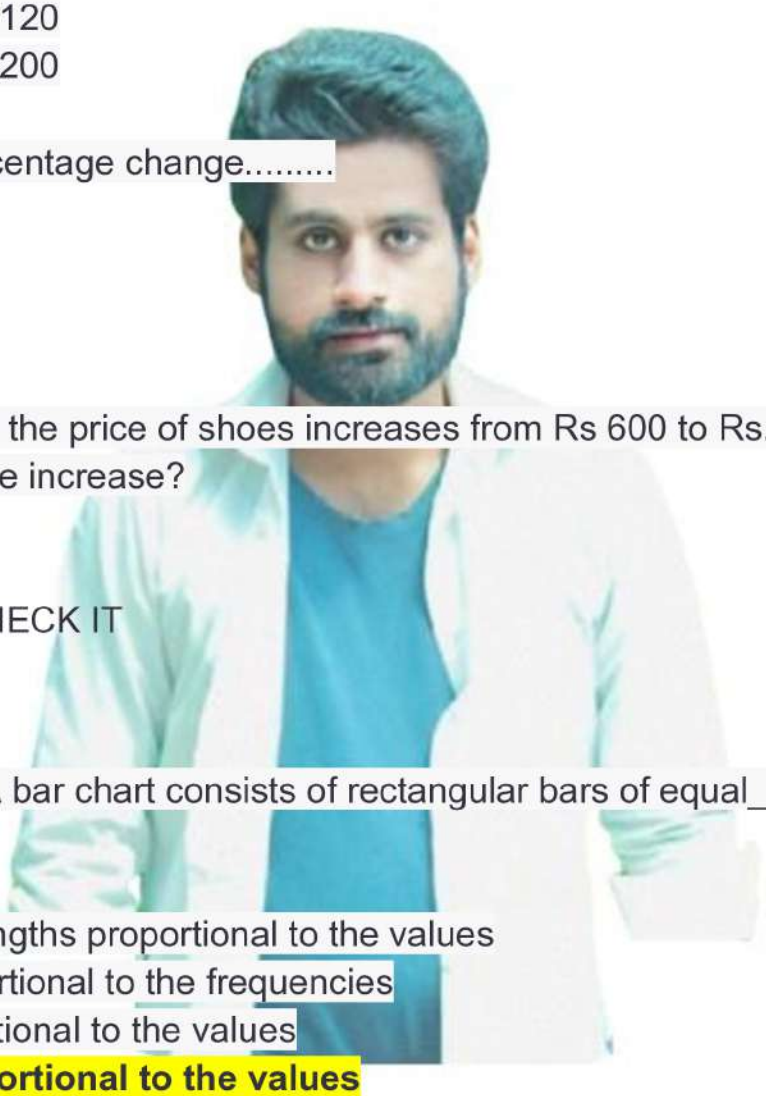
(600/9)%
(300/6)%...

QUESTION: If 25 x 100,then x =

5
4
75
25

QUESTION: When a scalar k is multiplied with any matrix then
k is multiplied with a row of that matrix.
k is multiplied with the diogonal of that matrix.
k is multiplied with all elements of that matrix.

QUESTION: If
Initial value = 120
Final Value = 200
Increase = 80
Then the Percentage change.....
66.67%
40%
22.5%
30%



QUESTION: If the price of shoes increases from Rs 600 to Rs.900, what is the percentage increase?

(600/3)%
(900/6)%...CHECK IT
(600/9)%
(300/6)%

QUESTION:A bar chart consists of rectangular bars of equal_____that they represent.

widths and lengths proportional to the values
lengths proportional to the frequencies
widths proportional to the values
lengths proportional to the values

QUESTION:A variable which represents the measurement data is called.....

Discrete variable

Continuous variable

None of these

QUESTION: The component bar chart should be used when we have available information regarding...

Totals and their components

Totals

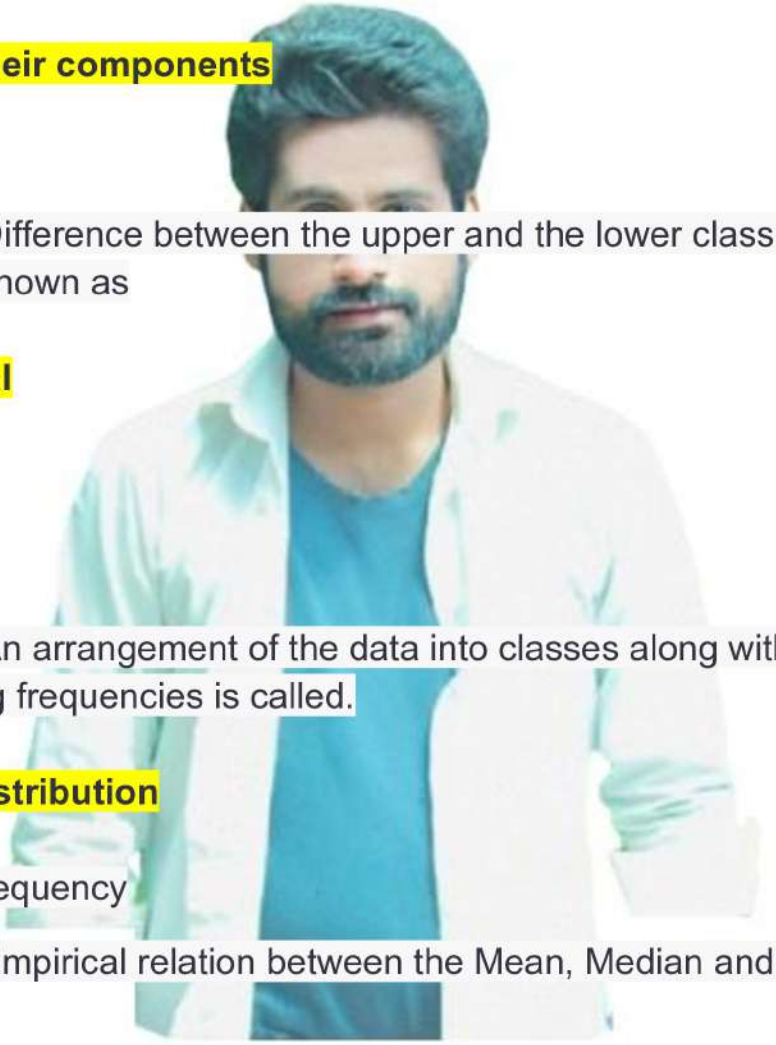
Components

QUESTION: Difference between the upper and the lower class boundaries of a class is known as

Class limit

Class interval

Class mark



QUESTION: An arrangement of the data into classes along with the corresponding frequencies is called.

frequency distribution

Raw data

Cumulative frequency

QUESTION: Empirical relation between the Mean, Median and Mode is given by

Mode 3 Median + 2 Mean

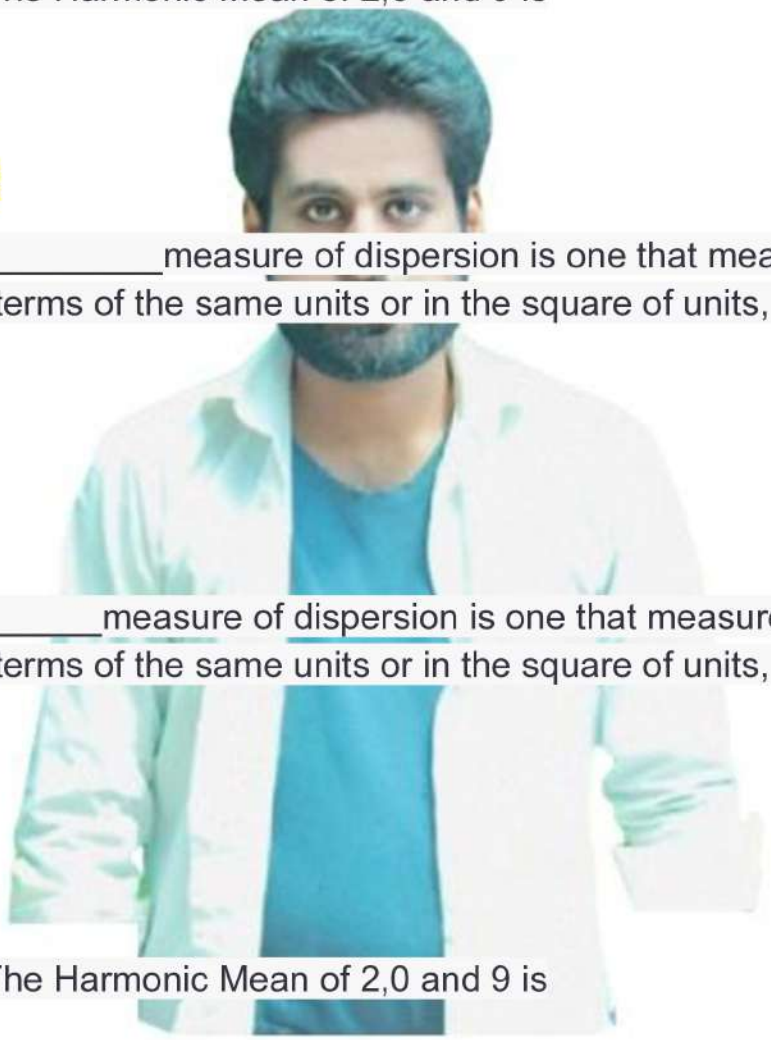
Mode = Median - 2 Mean

Mode = 2 Median - 3 Mean

Mode = 3 Median - 2 Mean

QUESTION: The Geometric Mean of 2,8 and 4 will be.
2
4
8
0

QUESTION: The Harmonic Mean of 2,0 and 9 is
3.7
4.9
9.0
Not Possible



QUESTION:_____measure of dispersion is one that measures the dispersion in terms of the same units or in the square of units, as the units of the data.
Relative
Absolute
Pupils
Quartile

QUESTION:_____measure of dispersion is one that measures the dispersion in terms of the same units or in the square of units, as the units of the data.
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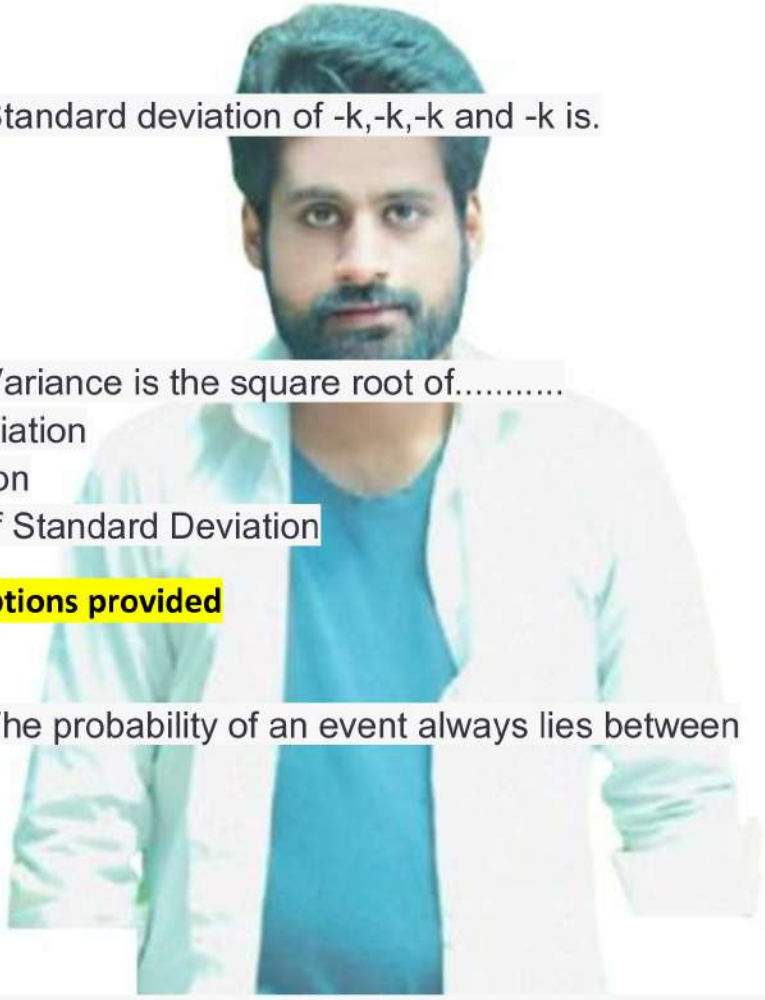
QUESTION: Let E and F be the two events of a sample S such that P(EUF)=0.8, P(EF)=0.3 and P(E)=0.5, then P(F) =

0.6

0.63

0.16

0.3



QUESTION: Standard deviation of -k,-k,-k and -k is.

-k

k

0

1

QUESTION: Variance is the square root of.....

Standard Deviation

Mean Deviation

Co-efficient of Standard Deviation

None of the options provided

QUESTION: The probability of an event always lies between

-1 &+1

-1 & 0

0 & 1

QUESTION: What is the probability of getting tail when a coin is tossed?

0

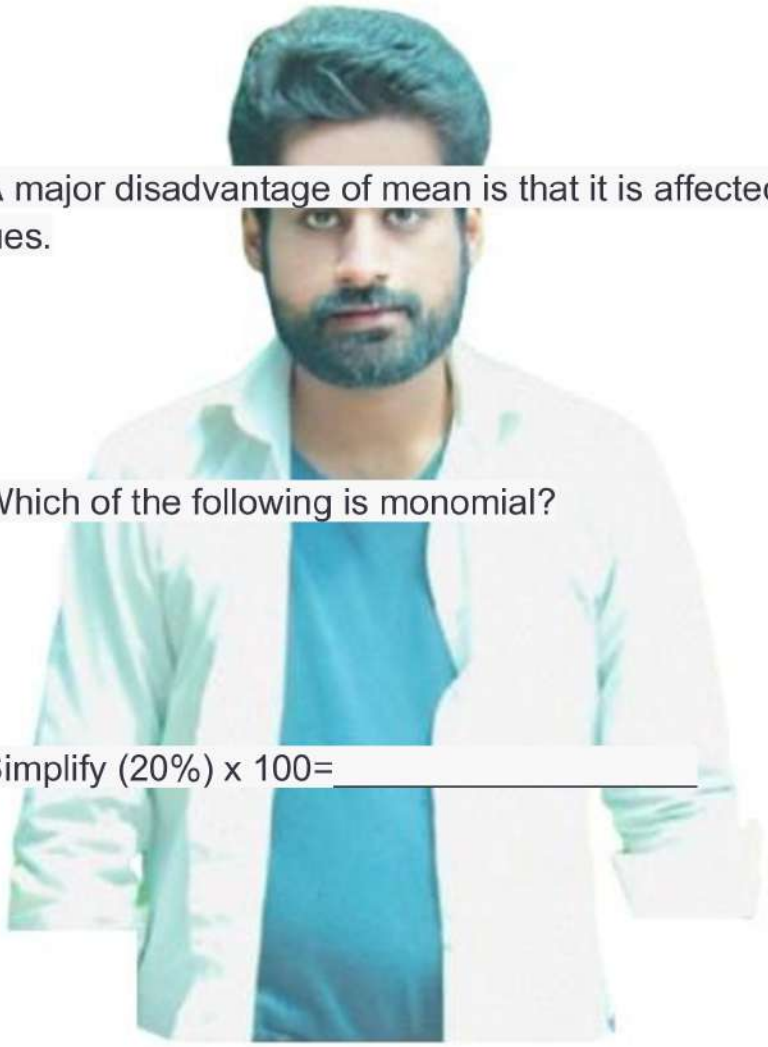
1/2

3/4

1

QUESTION: The two events A and B are independent if and only if.....
P(AB) = P(A) P(B)
P(AB) = P(A).P(B/A)
P(AB) = P(B). P(A/B)

QUESTION: For two independent events A and B, P(A) = 0.2 and P (B) = 0.6, then P (AB)
0.8
1.2
0.6
0.12



QUESTION:A major disadvantage of mean is that it is affected by_____values.
very small
middle
very large
extreme

QUESTION: Which of the following is monomial?
10x
10x + 5
10x + 20y+5
10x + 10y

QUESTION: Simplify (20%) x 100=_____
20
2.0
0.2
0.002

QUESTION: The value of all assets that are reasonably expected to be converted into cash within one year in the normal course of business are called

Liabilities

Current assets

Face value

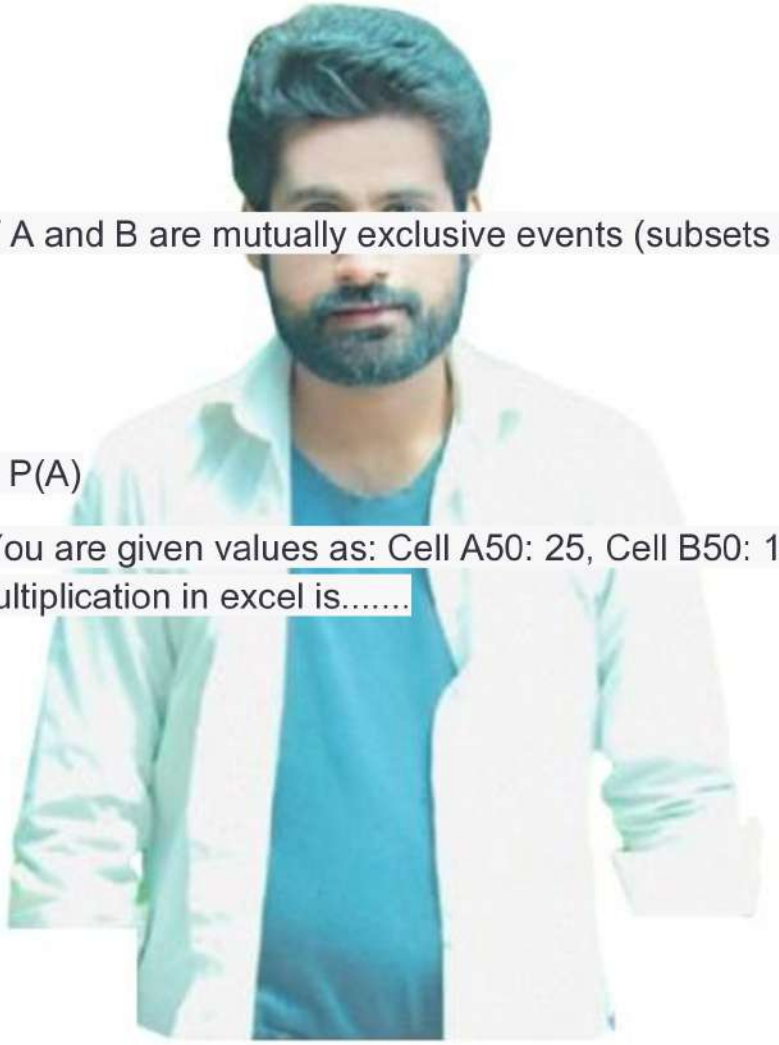
QUESTION: If a dice is thrown, the probability of getting 5 or 6 is

1/2

1/3

1/5

2/6



QUESTION: If A and B are mutually exclusive events (subsets of S) then P(A UB) =

P(A) X P(B)

P(A) + P(B)

P(A+B)

P(A) X P(B) + P(A)

QUESTION: You are given values as: Cell A50: 25, Cell B50: 15. The formula for multiplication in excel is.....

= 450 - B50

= 450 x 850

= A50 X B15

= **A50 (B50)**

SUBJECTIVE

QUESTION: Ahsan scored 82, 85, 78, and 88 marks out of 100 in four assignments of 'Elementary Mathematics' course. What should be his score in the fifth assignment so that the average of all the assignments is 85?

ANSWER:

To find out what score Ahsan needs in the fifth assignment to achieve an average score of 85 across all five assignments, we can set up the following equation:

$$\text{Average Score} = \frac{\text{Total Score}}{\text{Number of Assignments}}$$

Given that the average score is 85 and the total score of the first four assignments is $82 + 85 + 78 + 88 = 333$, we can set up the equation:

$$85 = \frac{333 + \text{Score in the Fifth Assignment}}{5}$$

Now, let's solve for the score in the fifth assignment:

$$85 \times 5 = 333 + \text{Score in the Fifth Assignment}$$
$$425 = 333 + \text{Score in the Fifth Assignment}$$
$$\text{Score in the Fifth Assignment} = 425 - 333$$
$$\text{Score in the Fifth Assignment} = 92$$

So, Ahsan needs to score 92 marks in the fifth assignment to achieve an average score of 85 across all five assignments.

QUESTION: If 12 inches correspond to 30.48 centimeters then how many centimeters are there in 30 inches?

ANSWER:

To find out how many centimeters are in 30 inches, we can set up a proportion using the given conversion factor:

$$\frac{12 \text{ inches}}{30.48 \text{ centimeters}} = \frac{30 \text{ inches}}{x \text{ centimeters}}$$

Now, let's solve for x:

$$x = \frac{30 \times 30.48}{12}$$
$$x = \frac{914.4}{12}$$
$$x \approx 76.2$$

So, there are approximately 76.2 centimeters in 30 inches.



QUESTION:A pair of fair dice is rolled once. Find the probability that the sum of the faces is 9.

ANSWER:



To find the probability of getting a sum of 9 when rolling two fair dice, we first need to determine the total number of possible outcomes and the number of outcomes where the sum is 9.

Each die has 6 faces, so there are $6 \times 6 = 36$ possible outcomes when rolling two dice.

Now, let's find the number of outcomes where the sum of the faces is 9. We can create a table to list all possible outcomes and their sums:

Die 1	Die 2	Sum
1	8	9
2	7	9
3	6	9
4	5	9
5	4	9
6	3	9

There are 4 outcomes where the sum is 9.

Therefore, the probability of getting a sum of 9 is:

$$\text{Probability} = \frac{\text{Number of favorable outcomes}}{\text{Total number of outcomes}} = \frac{4}{36} = \frac{1}{9}$$

So, the probability of getting a sum of 9 when rolling two fair dice is $\frac{1}{9}$.

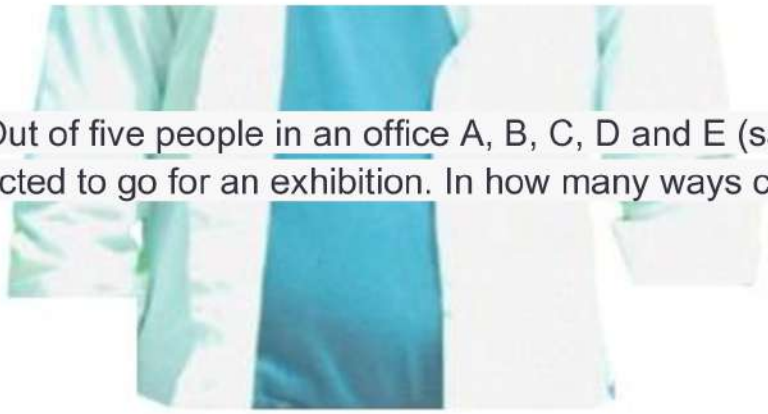


QUESTION: Give examples of monomial, binomial, trinomial and polynomial.

ANSWER:

1. Monomial:
   - $5x^2$
   - $-3y$
   - $2z$
2. Binomial:
   - $2x + 3$
   - $-5y^2 + 4y$
   - $7z - 8$
3. Trinomial:
   - $x^2 + 2x - 3$
   - $3y^2 - 5y + 2$
   - $-4z^3 + 6z^2 - z$
4. Polynomial (more than three terms):
   - $2x^3 + 3x^2 - 5x + 7$
   - $-y^4 + 2y^3 - 3y^2 + 4y - 5$
   - $4z^5 - 3z^3 + 2z^2 - z + 1$

These examples illustrate the different types of algebraic expressions based on the number of terms they contain.



QUESTION: Out of five people in an office A, B, C, D and E (say) just three are to be selected to go for an exhibition. In how many ways can the three be chosen?

ANSWER:

To select three people out of five, you can use the combination formula, which is given by:

$$\text{Number of ways to choose } k \text{ items from } n = \frac{n!}{k!(n-k)!}$$

Where:

- n is the total number of items (in this case, people).
- k is the number of items to be chosen.

In this problem:

- $n = 5$ (since there are five people).
- $k = 3$ (since you want to choose three people).

Now, substitute these values into the combination formula:

$$\text{Number of ways to choose three people from five} = \frac{5!}{3!(5-3)!}$$

$$= \frac{5!}{3!2!}$$

$$= \frac{5 \times 4 \times 3!}{3! \times 2 \times 1}$$

$$= \frac{5 \times 4}{2 \times 1}$$

$$= \frac{20}{2}$$

$$= 10$$

So, there are 10 ways to choose three people from five.

QUESTION: Classify the following as qualitative or quantitative variables. i. Height measurements of students
ii. Religion of the people of a country
iii. Likings or dislikings of 1000 persons for a certain product

iv. Income of Government servants of a city
v. Color of hair of 1000 persons
ANSWER:

Qualitative variables are categorical or non-numeric in nature, while quantitative variables are numeric. Let's classify each of the given variables:

i. Height measurements of students - **Quantitative** (height is a numeric measurement)
ii. Religion of the people of a country - **Qualitative** (religion is a categorical attribute)
iii. Likings or dislikings of 1000 persons for a certain product - **Qualitative** (likings or dislikings are categorical)
iv. Income of Government servants of a city - **Quantitative** (income is a numeric measurement)
v. Color of hair of 1000 persons - **Qualitative** (color is a categorical attribute)




HADI VU
PAST
PAPER
WE DEAL ALL KIND OF VU PROJECT
(PHP,ANDROID,PYTHON)
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2) QUIZZES
3) GDB
4) GRAND QUIZZES
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