

ROUND-1 NOVICE

1

The average of five numbers is 20. If one number is removed, the new average is still 20. What is the removed number?

- ☐ 10
- ☐ 20
- ☐ 30
- ☐ 40

2

Find mean of 12,13,14,15,16,17,18.



3

A student calculates the mean of five numbers as 40 but later realizes one number was entered as 50 instead of 60. What is the correct mean?

- ☐ 24
- ☐ 42
- ☐ 40
- ☐ 20

4

The mean of three numbers is 25. Two numbers are 20 and 30. What is the third number?

- ☐ 15
- ☐ 25
- ☐ 20
- ☐ 30



5

A teacher writes the numbers {5, 5, 10, 10, 15} and says there is no mode. Is she correct?

- ☐ yes
- ☐ no
- ☐ cannot say

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A dataset has no mode. What can you say about its numbers?

- ☐ All are equal
- ☐ some repeat
- ☐ All are unique
- ☐ No conclusion

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The mode of {2, 3, 4, 4, 5, 6} is __? If you add one more '4', will the mode change?

- ☐ (3, yes)
- ☐ (4, yes)
- ☐ (3.5, yes)
- ☐ (5, yes)

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What is the primary goal of predictive analytics in business?

- ☐ To forecast future trends using historical data
- ☐ To replace all manual work with AI
- ☐ To store large amounts of data
- ☐ To perform data cleaning

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In supply chain management, how does data science help?

- ☐ By eliminating all logistical errors
- ☐ By optimizing inventory and delivery schedules
- ☐ By reducing production costs to zero
- ☐ By predicting employee turnover

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What is the first step in any data science project?

- ☐ Model building
- ☐ Data visualization
- ☐ Understanding the business problem and collecting data
- ☐ Deploying the model

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What does the term 'Big Data' refer to?

- ☐ Data stored in large physical servers
- ☐ Extremely large and complex datasets that traditional methods cannot process efficiently
- ☐ Data collected from government agencies
- ☐ A type of AI model

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Why is standard deviation important in quality control?

- ☐ It always decreases over time
- ☐ It measures the absolute average performance
- ☐ It quantifies the variation in product measurements
- ☐ It identifies missing data

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What is the role of hypothesis testing in business decision-making?

- ☐ To determine if a business assumption is statistically valid
- ☐ To prove all hypotheses are correct
- ☐ To create financial reports
- ☐ To summarize past performance

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CNN-

- ☐ Convolutional Neural Network
- ☐ Conventional Neural Network
- ☐ Complex Neural Network
- ☐ Conceptual Neural Network

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ETL -

- ☐ Extract, Transfer, Load
- ☐ Extract, Transform, Load
- ☐ Encode, Transfer, Learn
- ☐ Evaluate, Train, Launch

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GPU-

- ☐ General Processing Unit
- ☐ Graphical Processing Utility
- ☐ Graphics Processing Unit
- ☐ Global Processing Unit

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If the mean of a dataset is 50 and the sum of all values is 500, how many values are in the dataset?

- ☐ 5
- ☐ 10
- ☐ 50
- ☐ 100

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If a dataset has two modes, what is it called?

- ☐ Bimodal
- ☐ Multimodal
- ☐ Unimodal
- ☐ Normal

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What is the output of a classification algorithm?

- ☐ A continuous value
- ☐ A discrete category or class label
- ☐ A probability density function
- ☐ A regression coefficient

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In cloud computing, what does IaaS stand for?

- ☐ Infrastructure as a Service
- ☐ Internet as a Software
- ☐ Information as a Solution
- ☐ Independent AI Systems

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Which industry benefits most from fraud detection models?

- ☐ Retail
- ☐ Healthcare
- ☐ Banking & Finance
- ☐ Transportation

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Which evaluation metric is used for classification problems?

- ☐ Accuracy
- ☐ R-Squared
- ☐ Mean Squared Error
- ☐ Root Mean Squared Error

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If an email spam detector predicts "Spam" or "Not Spam," what type of ML task is it?

- ☐ Binary Classification
- ☐ Clustering
- ☐ Multi-Class Classification
- ☐ Regression

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What is feature engineering?

- ☐ Transforming raw data into meaningful features
- ☐ Removing duplicate rows
- ☐ Converting features to strings
- ☐ Dropping null values

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What is the biggest challenge in real-time analytics?

- ☐ Handling high-velocity data
- ☐ Training models
- ☐ Saving data in CSV
- ☐ Running SQL queries

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What is AutoML?

- ☐ Automated Machine Learning model building
- ☐ A deep learning algorithm
- ☐ A cloud platform
- ☐ An SQL query optimization technique

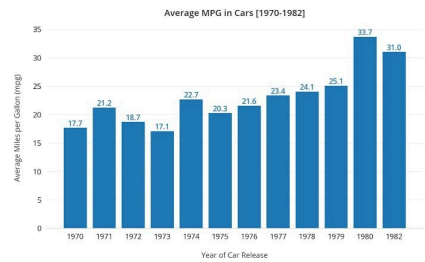
27

What is the main goal of MLOps?

- ☐ Automate and manage ML workflows
- ☐ Improve SQL speed
- ☐ Increase dataset size
- ☐ Reduce training loss

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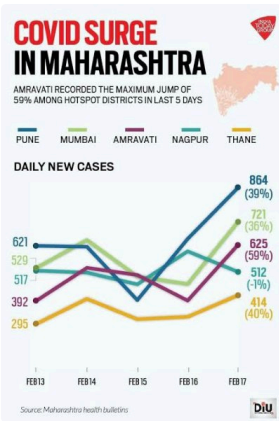
In 1976, Average miles per hour Gallon(mpg) in cars was _.



- ☐ 23.4
- ☐ 26.1
- ☐ 21.6
- ☐ 20.3

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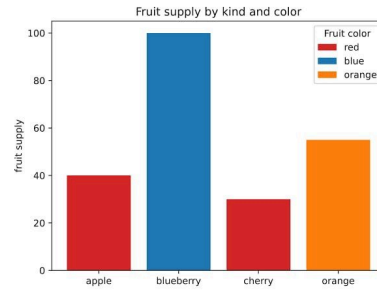
Mumbai has highest number of cases on ?



- ☐ Feb 13
- ☐ Feb 14
- ☐ Feb 15
- ☐ Feb 16

30

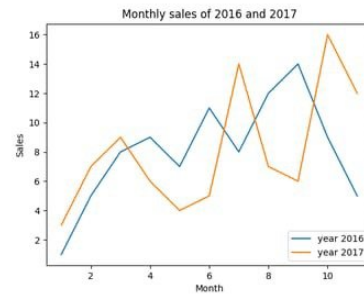
how many fruits and how many colours of fruits sold ?



- ☐ 3,4
- ☐ 4,4
- ☐ 4,3
- ☐ 3,3

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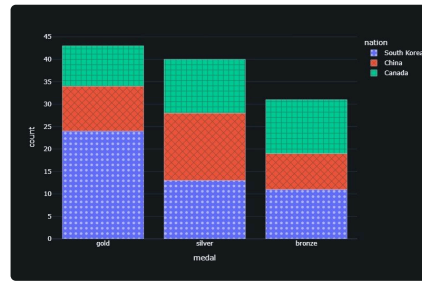
In year 2027, how many times sales picked ?



- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

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Which nation has more medals ?



- ☐ South Korea
- ☐ China
- ☐ Canada
- ☐ Option b & c

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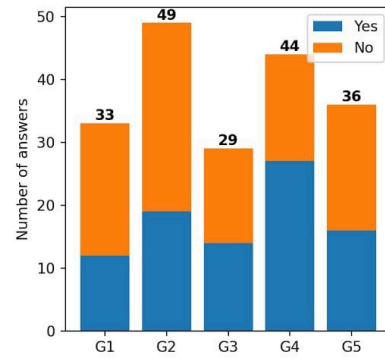
Calculate difference between Maximum sale and Minimum sale.



- ☐ 12k
- ☐ 24k
- ☐ 20k
- ☐ 14k

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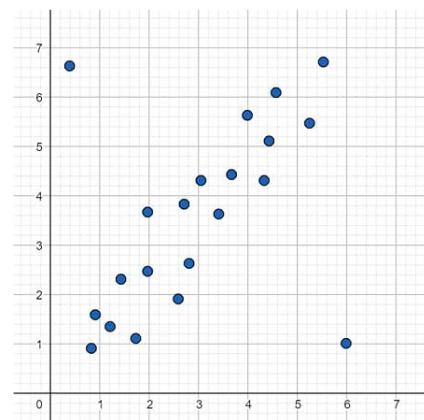
Which student gives more answer as "No" and Which student gives less answer as "Yes" in individual paper.



- ☐ G2,G3
- ☐ G1,G2
- ☐ G3,G4
- ☐ G2,G1

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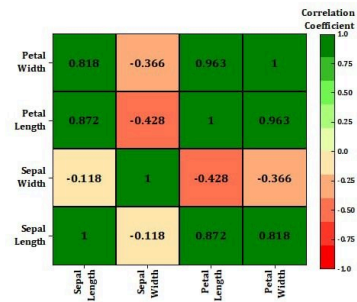
How many outliers are there ?



- ☐ infinite
- ☐ 10
- ☐ 20
- ☐ 2

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With sepal length which another feature is highly correlated?



- ☐ Sepal Length
- ☐ Sepal width
- ☐ Petal length
- ☐ petal width

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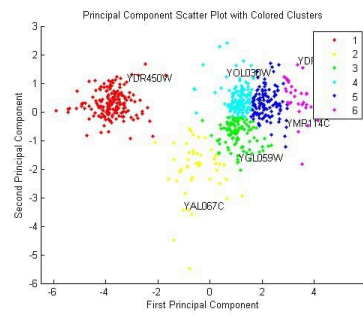
Identify the chart.



- ☐ clustering graph
- ☐ Scatter graph
- ☐ dotted graph
- ☐ green dotted graph

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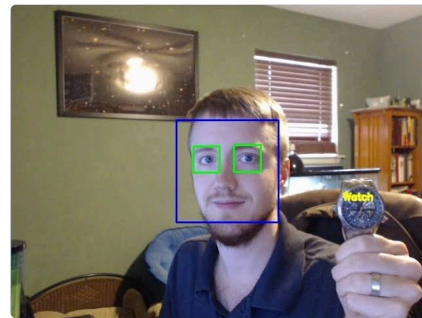
What is done in above graph ?



- ☐ created scatter graph
- ☐ created clusters
- ☐ both a and b are correct
- ☐ none of the above

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Which technology is used in above image?



- ☐ OpenCV
- ☐ Object detection
- ☐ AI
- ☐ both a and b

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Why we use NLP?

- ☐ To detect objects
- ☐ To detect language
- ☐ To remove objects
- ☐ To visualise data

