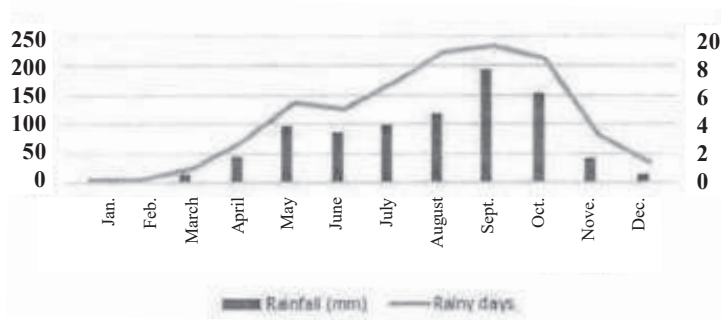
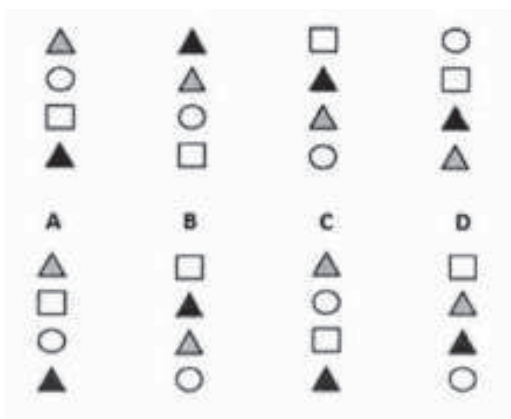


4. Anita gave one-fourth of her money to Babita. Then, Babita gave one-third of what she got from Anita to Jyoti. If Anita has Rs. 45 left now, how much did Jyoti get?
A) 4.5
B) 5
C) 15
D) 6
5. The average age of Anju and Viju is 20. If their ages are in the ratio 3:2, then the age of Anu is
A) 24 years
B) 12 years
C) 8 years
D) 30 years
6. Arjun alone can paint a house in 12 days and Ram alone can paint the house in 24 days. How many days does it take for them to paint the house together?
A) 12 days
B) 10 days
C) 6 days
D) 8 days
7. A and B are two numbers. A is 20% more than C and B is 50% more than C. The ratio of the numbers (A: B) is
A) 4:5
B) 5:2
C) 3:4
D) 2:5
8. The following graph shows the information on average rainfall in Kolhapur city in last year. Among the following statements find the true one.



- A) On an average the city receives more rain in April than in August.
- B) On an average it rains more in May than in June.
- C) On an average December is the driest month.
- D) On an average October is the wettest month.
9. If today is Sunday, what day would it be after 25 days?
- A) Sunday B) Tuesday
- C) Thursday D) Saturday
10. The price of 2 kilograms of apples is the same as 5 kilograms of bananas. You have enough money to buy 30 kilograms of bananas. How many kilograms of apples can you buy?
- A) 60 B) 15
- C) 10 D) 12
11. The areas of two circles are 100 square meters and 25 square meters respectively. Then the ratio of the circumference of the larger circle to the circumference of the smaller circle is
- A) 5:2 B) 4:1
- C) 2:1 D) None of the above
12. Which of the images is next in the sequence?



13. The number of multiples of 4 between 10 and 250 is

- A) 59
- B) 60
- C) 63
- D) None of the above

14. "There is a tree in this campus all of whose leaves are green", if the above statement is false, then

- A) Every tree in this campus has at least one leaf that is not green.
- B) There is a tree in this campus which has at least one leaf that is not green.
- C) There is a tree in this campus all of whose leaves are not green.
- D) Every leaf in each tree in this campus is not green.

15. The average age of three girls is 15. If their ages are in ratio 3:5:7, then the age of the youngest girl is

- A) 9 years
- B) 12 years
- C) 15 years
- D) 18 years

16. The rail route from Bangalore to Delhi is 2380 km long. If the average speed of Rajdhani express is 70 km/hr how many hours would it take to complete the journey from Bangalore to Delhi?

- A) 33
- B) 34
- C) 24
- D) 37

17. Find the odd man out

- A) 165
- B) 176
- C) 243
- D) 275

18. Statements: All fruits are green in colour. All mangoes are fruits. Given the above two statements, which of the conclusions follow.

Conclusions:

I. Some mangoes are not green in colour.

II. All fruits are mangoes.

A) Only conclusion I follows. B) Only conclusion II follows

C) Neither I nor II follows D) Both I and II follow

19. If the speed of sound is 343 m/s, how many kilometers can it travel in an hour?

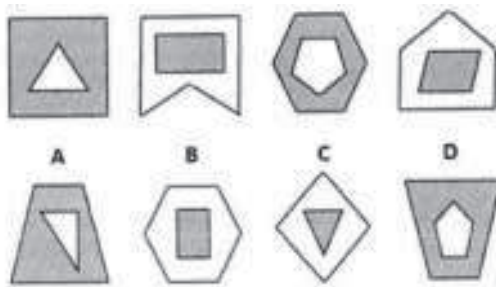
A) 343 km

B) 1234.5 km

C) 1234.8 km

D) 95.28 km

20. Which of the images is next in the sequence?



21. The average of the first 95 natural numbers is

A) 95

B) 47.5

C) 48

D) 49

22. If P is the sister of Q; Q is the brother of R; and R is the mother of S, how S is related to P?

A) Brother

B) Sister

C) Nephew

D) Cannot be determined

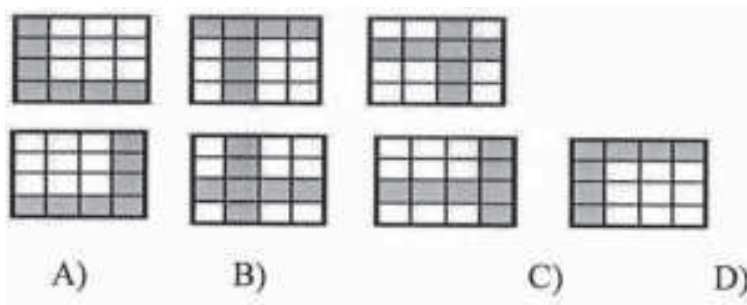
23. 357 is not a multiple of?

- A) 3
B) 5
C) 17
D) 7

24. Pralhad starts walking from his home. He walks 5 k.m. towards East and then takes a right and walks for 8 k.m. Then he again turns right and walks for 5 k.m. What is Pralhad's position with respect to his starting point?

- A) 5 k.m. North
B) 5 k.m. South
C) 8 k.m. East
D) 8 k.m. South

25. Which shape comes next in the pattern below?



26. Suppose X is 5% of 30 and Y is 3% of 80. Then

- A) $SX=3Y$
B) Y is bigger than X
C) $3X=5Y$
D) X is bigger than Y

27. A goat needs 2.5 kgs of grass per day. If you have 100 kgs of grass, for how many days can you feed two goats?

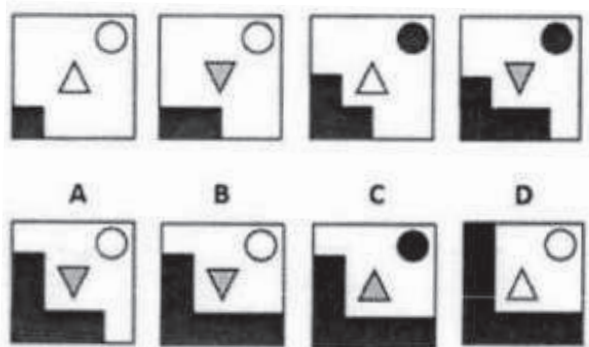
- A) 20 days
B) 25 days
C) 40 days
D) 80 days

28. A and B are two numbers. A is 20% less than C and B is 60% more than C.

The ratio of the numbers (A: B) is

- A) 1:3
B) 2:3
C) 3:2
D) 1:2

29. Arjun and Ram together can do a piece of work in 6 hours. If Arjun alone can do the work in 15 hours, then how many hours does Ram take to do the work alone?
- A) 12 hours B) 10 hours
C) 4.5 hours D) 8 hours
30. The price of 3 kilograms of apples is the same as 5 kilograms of bananas. You have enough money to buy 20 kilograms of bananas. How many kilograms of apples can you buy?
- A) 60 B) 15
C) 10 D) 12
31. A bus started at Mysuru at 7:00 AM and traveled to Bengaluru. The distance between Mysuru and Bengaluru is 150 km. If the bus does not stop in between and is travelling at 90 kmph speed on average, then the bus should reach Bengaluru
- A) before 8:30 AM B) before 9:00 AM
C) between 9:00 AM and 10:00 AM D) after 10:00 AM
32. Which shape comes next in the pattern below?



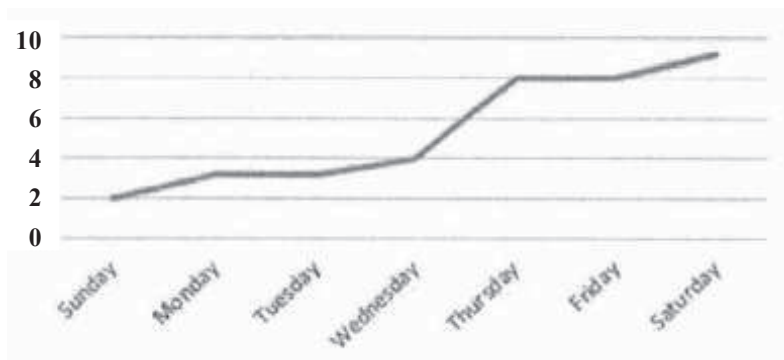
33. Buses travelling from Sangli to Mumbai usually make a stop at Pune and another stop at Lonavala, just before reaching Mumbai.

Which of the following statements is a correct inference from the above statement?

- i) Lonavala lies in the middle of Sangli and Mumbai
- ii) All buses travelling from Sangli to Mumbai makes a stop at Pune

- A) Only (i) is true
- B) Only (ii) is true
- C) Both (i) and (ii) are true
- D) Neither (i) or (ii) is true

34. The following graph shows the cumulative rainfall (in mm) received during a week in Miraj city. The readings are taken at the end of the day. Find the amount of rainfall on Thursday.



- A) 4 mm
 - B) 0 mm
 - C) 8 mm
 - D) 3.2 mm
35. There are 22 students in class. Find which among the following is always true.
- A) There are at least four students who are born on the same day of the week.
 - B) There are at least four students who are born on Sunday.
 - C) There are at most four students who are born on the same day of the week.
 - D) There are at most four students who are born on Sunday.

36. If the side length of square A is 3 times larger than the side length of square B, then how many times larger is the area of square A compared to that of square B?
- A) $\frac{1}{3}$ times B) $\frac{1}{9}$ times
C) 9 times D) 3 times
37. The cost price of 10 bags of tomatoes is the selling price of 12 bags of tomatoes. Then the loss percentage is
- A) 10% B) 6%
C) 12% D) 16.67%
38. When asked to evaluate his first 100 days in office, the president of a country said, "I have done more than any president." If he is wrong, then which among the following is correct.
- A) Every president performed better than him in the first 100 days.
B) There was at least one president who performed better than him in the first 100 days.
C) His performance was poor in the first 100 days.
D) No president performed better than him in the first 100 days.
39. If the time now is 1:00 PM, what time is it 20 hours from now?
- A) 9:00 PM B) 4:00 AM
C) 9:00 AM D) 8:00 AM
40. 6 children are sitting in a circle. A sits next to D but not next C and B. B sits in-between D and F. Who sits adjacent to C?
- A) A and B B) D and E
C) E and F D) Insufficient information.

41. Replace the question mark (?) by an appropriate alternative in the following series:

4 $14/3$ $16/3$ 6 ?

A) $20/3$

B) $22/3$

C) 8

D) 9

42. The average of the numbers 5, -6, X and Y is 5. Which of the following has to be true?

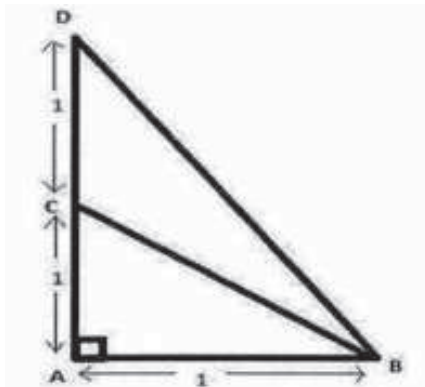
A) $X = 7, Y = 9$

B) X and Y must lie in between -6 and 5

C) $X+Y = 21$

D) Both X and Y must be positive

43. In the figure below, which of the following is true?



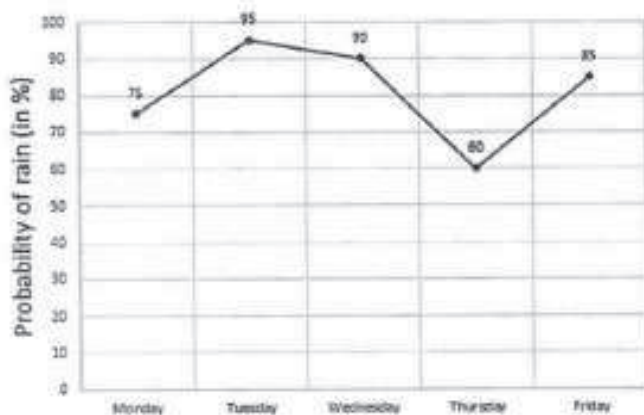
A) We do not have enough information to compare the areas of triangles ABC and CBD

B) The area of triangle ABC is larger than the area of triangle CBD

C) The area of triangle ABC is smaller than the area of triangle CBD

D) The area of triangle ABC equals the area of triangle CBD

44. Replace the question mark (?) by an appropriate alternative in the following letter series: BD GK?
- A) P B) Q
- C) O D) N
45. P is a smaller number than Q. If you subtract 2 from Q, you get R. Which of the following is true?
- A) P is bigger than R B) R is bigger than P
- C) Q is smaller than R D) None of the above
46. A shopkeeper has 40 kg of white rice and 20 kg of red rice, 6% of the white rice and 3% of the red rice are spoilt. All together, what percentage of the rice is spoilt?
- A) 5% B) 4.5%
- C) 9% D) 3%
47. The graph below shows the probability of rain in Bangalore for the coming week.



Which of the following is true?

- A) If it does not rain on Tuesday, it will not rain on Thursday
- B) If it does not rain on Tuesday, it has to rain on Wednesday
- C) It will definitely rain some time during the week
- D) It is possible that there will be no rain on both Thursday and Friday

48. The following table shows the cost of travelling in a bus for various distances.

D = Distance (In Kms)	2	4	6	8	10	12	14
F = Bus Fare (in Rs.)	6	8	10	10	12	12	15

Which of the following is correct?

A) $F=2D$

B) $F \geq 2D$

C) $F \leq 2D$

D) None of the above formulas is true.

49. An oval bicycle track is 1 km long and the total distance for the race is 9.5 km. Cyclist 1 is going at an average speed of 15 km/hr and Cyclist 2 is going at an average speed of 30 km/hr.

A) Cyclist 2 will never meet Cyclist 1

B) The two cyclists will meet exactly once

C) The two cyclists will meet nine times

D) The two cyclists will meet four times

50. Aarti, Apoorva, Anushka, Aparajitha and Ameena casted their votes to elect their class representative. Raju and Rani are the only 2 contestants. Aarti voted for Raju. Aparajitha and Ameena voted for Rani. Apoorva did not vote for Raju. One person was not allowed to vote. Who won the election?

A) Rani

B) Raju

C) Election was a tie

D) Not sufficient information

51. If you have a cardboard circle of radius 3 cm, and cut out a square of side 1 cm, what is the area of the remaining shape?

A) $6\pi - 4$

B) $3\pi - 1$

C) $9\pi - 1$

D) $6\pi - 1$

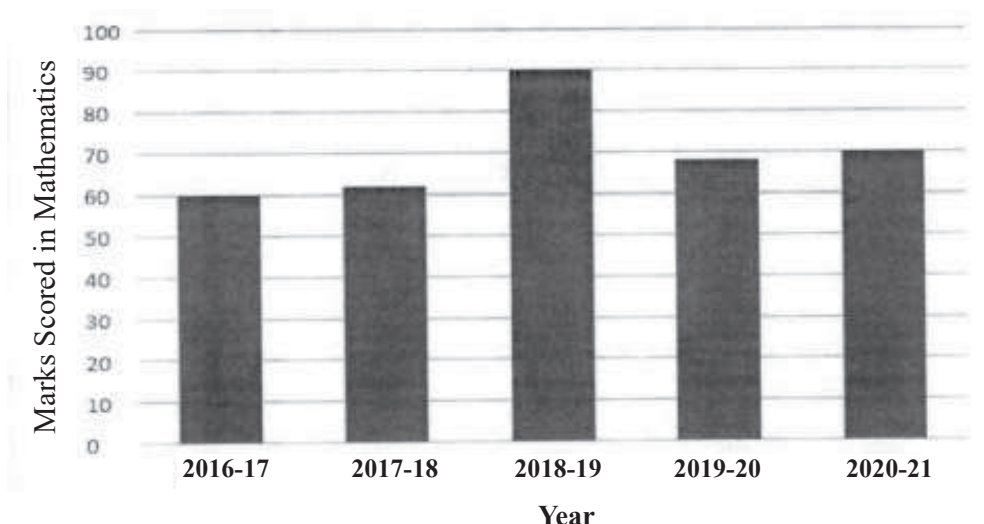
52. You have to choose a password consisting of three whole numbers between 0 and 9. You are allowed to repeat digits, but the order of the digits matters. You also cannot choose a password in which all three digits are the same (like 111 or 222) or one that begins with 0 (like 012). How many options do you have?
- A) Over 10,000
 - B) Between 1000 and 9,999
 - C) Between 500 and 999
 - D) Fewer than 499
53. Suppose $xy = 1$ and $y = 20$. Then x equals
- A) 0.05
 - B) 0.2
 - C) 0.02
 - D) 0.5
54. In a class with 50 students, 26 are taking biology and 25 are taking maths. Which of the following is true?
- A) No more than one student is taking both biology and maths
 - B) At least one student is taking both biology and maths
 - C) Exactly one student is taking both biology and maths
 - D) This situation is not possible
55. A manufacturing company had 280 sales outlets across the country in the year 2019. It closed down 70 outlets by the year 2021. The percentage of outlets closed down during the years 2019-2021 is
- A) 25%
 - B) 20%
 - C) 75%
 - D) 33.33%

56. Kolhapur and Satara are 120 kms away. A car started from Kolhapur at 10 AM towards Satara and travelled at a speed varying between 40 kmph and 60kmph. If the car did not stop during the travel, then the car reached
- A) before 11 AM
 - B) between 12 noon and 1 PM
 - C) between 11 AM and 12 noon
 - D) after 1 PM
57. There are three men in a family. If two of them are sons and two of them are fathers, how is the youngest related to the eldest?
- A) Grandfather
 - B) Grandson
 - C) Son
 - D) Father
58. Two sides of a rectangle are in the ratio 1:2 and their perimeter is 84 units. Then the smallest of the two sides is
- A) 12 units
 - B) 14 units
 - C) 18 units
 - D) 24 units
59. A shopkeeper sells a mobile phone at a profit of 35%. The cost price of the mobile phone is Rs. 4000. What is the price at which the phone was sold?
- A) Rs 1400
 - B) Rs 5000
 - C) Rs 5400
 - D) Rs 5350
60. A quiz has ten questions with 3 points awarded for each correct answer, 1 mark deducted for each wrong answer, and 0 for each question omitted. Madhu scored 22 points. How many questions did she omit?
- A) 0
 - B) 1
 - C) 2
 - D) 3

61. It takes 20 minutes to fully charge (100%) a mobile phone from 0%. Assume that the charging happens at a uniform rate. How much is the phone's battery already charged (in percentage) if it requires only 5 minutes of charging to the full battery?
- A) 20% B) 25%
- C) 75% D) 80%
62. Suman buys 64 packets of pencils each having 25 pencils. He decides to sell these pencils as packets of 8 pencils each. Then how many packets will he need to prepare?
- A) 100 B) 150
- C) 250 D) 200
63. Meena borrowed a loan of Rs. 1,200 with simple interest for as many years as the rate of interest. If the interest she paid at the end of the loan period is Rs 432, then what was the rate of interest per annum?
- A) 3.6% B) 4.5%
- C) 6% D) 5%
64. The areas of the two squares are 100 square meters and 64 square meters respectively. What is the ratio of the sides of the larger square to the side of the smaller square?
- A) 5:2 B) 4:5
- C) 5:4 D) 1:2

65. A certain university has only first-year and second-year students. Every student lives either in hostels on campus or in houses just outside campus. All the students living in the campus hostels are first-year students. Every student who lives in the houses outside campus has a pet dog. Based only on the above information, which of the following statements must be true?
- A) Some students who live in the houses outside campus do not have pet dogs.
 - B) All second-year students have pet dogs.
 - C) No first-year student lives in the houses outside campus.
 - D) Some second-year students live in the hostels on campus.
66. A shopkeeper sold a watch at a profit of 20%. If the cost price was Rs. 2400/- then at what price was the watch sold?
- A) Rs. 2800
 - B) Rs. 2880
 - C) Rs. 3000
 - D) Rs. 3120
67. In a certain city, 80% of the residents can speak Kannada, 50% can speak Hindi and 40% can speak English. 80% of the residents who can speak Hindi can also speak English.
- Which of the following statements must be true?
- A) Some residents of the city can speak all three languages.
 - B) Every resident of the city can speak all three languages.
 - C) More than 20% of the city's residents can speak neither Kannada nor English.
 - D) The majority of the city's residents can speak two or more languages.

68. The following graph shows the marks scored by a student over five years in Mathematics.



- In which year does the student show maximum improvement compared to the previous year?
- A) 2016-17 B) 2017-18
 C) 2018-19 D) 2019-20
69. The average age of a family of four members is 35 years. If the ages of three members are 48, 45, and 32 years, what is the age of the youngest member?
- A) 18 years B) 20 years
 C) 22 years D) 15 years
70. The angles of a triangle are in the ratio 1:3:5. Then the measure of the greatest of the three angles is
- A) 20° B) 180°
 C) 100° D) 90°

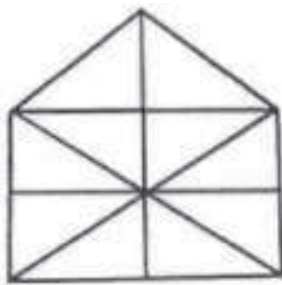
71. Girija rides her bicycle from home to school. If she rides at a speed of 20 km/hr, she arrives at school 5 minutes late. However, if she rides at a speed of 30 km/hr, she arrives at school 10 minutes early. What is the distance between her home and school?
- A) 15 km B) 20 km
C) 25 km D) 30 km
72. Arjun and Ram invested in a piece of land for a total of 2.7 crore rupees, in a ratio of 2:3. After three years, they sold the land for 3.5 crore rupees. How much profit did Arjun make?
- A) 16 lakhs B) 32 lakhs
C) 48 lakhs D) 64 lakhs
73. If MADRAS is coded as NBESBT, how is BOMBAY coded (under the same coding scheme)?
- A) CPNCBX B) CPNCBZ
C) CPOCBZ D) CQOCBZ
74. Vikram sells goods at the cost price, but he uses a fake weight of 800 grams instead of 1 kg. How much profit does he make?
- A) 2% B) 8%
C) 20% D) 25%
75. Three spraying machines, all with the same capacity, can finish painting a house in 60 minutes. How long will it take for five machines of the same capacity to do the same job?
- A) 30 minutes B) 24 minutes
C) 36 minutes D) 100 minutes

76. In Kolhapur city, the auto-rickshaw fare is fixed at Rs 25 for the first 2 km and Rs 15 for every kilometer thereafter. If an auto-rickshaw driver of the city follows this rule, what is the fare for 10 km?
- A) 250 rupees B) 85 rupees
C) 120 rupees D) 145 rupees
77. A train traveling at a speed of 90 km/hr crosses a pole in 7 seconds. What is the length of the train?
- A) 170 meters
B) 175 meters
C) 182 meters
D) 185 meters
78. Swati has some apples with her. She gave two-fifths of her apples to Babita. Then, Babita gave one-fifth of what she got from Swati to Kirti. If Swati had 75 apple initially, how many did Kirti get?
- A) 6 B) 25
C) 10 D) 4
79. The average age of Ajay and Vijay is 33. If their ages are in the ratio 5:6, the age of Ajay is
- A) 30 years
B) 33 years
C) 36 years
D) 24 years

80. In a library, there are two types of bookshelves: wooden and metal. Only wooden bookshelves have textbooks. Some books in the library are written by famous authors. All books written by famous authors are kept on metal bookshelves. Based only on the above information, which of the following statements must be true?

- A) Some books on wooden bookshelves are written by famous authors.
- B) If a book is kept on a metal bookshelf, it is written by a famous author.
- C) No book written by a famous author is a textbook.
- D) Some textbooks are kept on metal bookshelves.

81. Find the number of maximum possible triangles in the figure given below

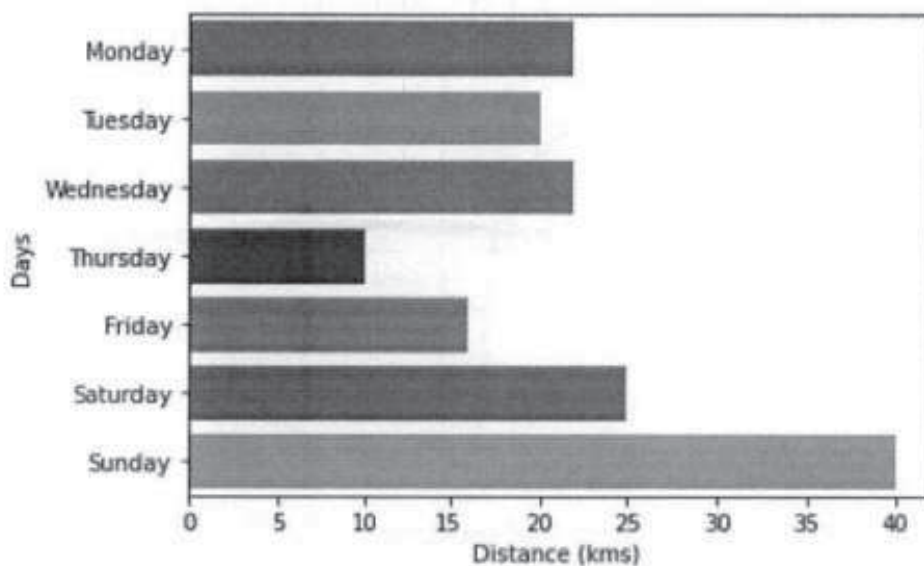


- A) 10
- B) 19
- C) 23
- D) 21

82. In a certain town, 70% of the residents own a car, 60% own a bicycle, and 50% own a motorcycle. Among those who own a car, 80% also own a bicycle, and among those who own a bicycle, 70% also own a motorcycle. Which of the following statements must be true?

- A) Some residents of the town own all three types of vehicles.
- B) Every resident of the town owns all three types of vehicles.
- C) More than 30% of the town's residents own none of the three types of vehicles.
- D) Less than 50% of the town's residents own two or more types of vehicles.

83. Ayesha, a student in your class, says: "No one in this class is better than me at maths and sports". Her classmate Pranav disagrees with her statement. Which of the following claims must Pranav believe?
- A) There is someone in the class better than Ayesha at both maths and sports.
 - B) Everyone in the class is better than Ayesha at both maths and sports.
 - C) Everyone in the class is better than Ayesha either at maths or at sports.
 - D) Ayesha is not very good at maths and sports.
84. The following graph shows the distance traveled by a cyclist on different days of the week.

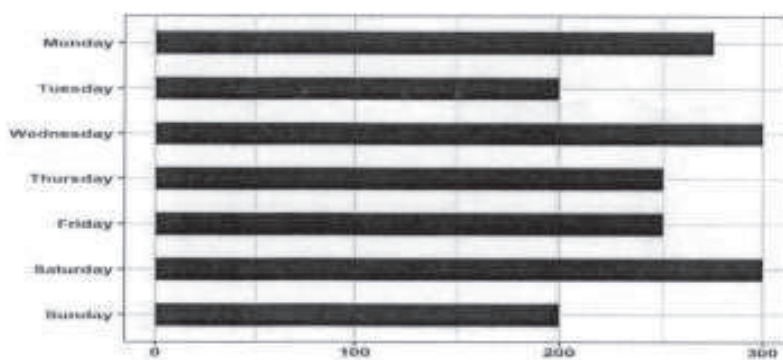


Which of the following statements is true?

- A) The cyclist covered the maximum distance on Saturday.
- B) The cyclist traveled the minimum distance on Friday.
- C) The cyclist traveled the same distance on Monday and Wednesday.
- D) The distance traveled on Saturday was twice the distance traveled on Friday.

85. The following graph shows the daily wages earned by a female worker in a particular week in a town. The days of the week are on the X axis and the wages earned in rupees are on the Y axis.

Daily wages of a female worker in a week

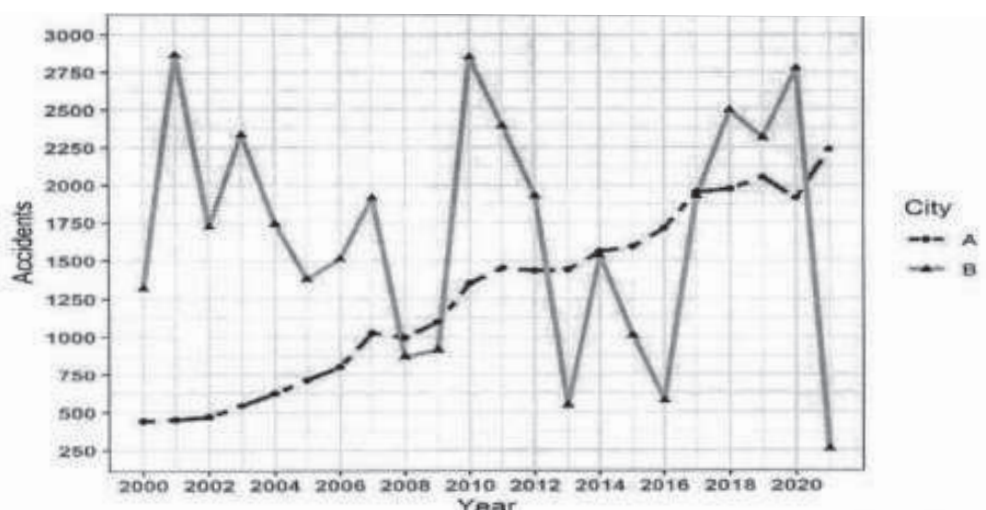


What is the difference between the highest and the lowest wages earned by her in that week?

- A) Rs 50 B) Rs 75
- C) Rs 100 D) No difference

86. The following graph shows the number of accidents that have happened each year from 2000 to 2021 in two cities, A and B. The X axis shows the year and the Y axis shows the number of accidents in that year.

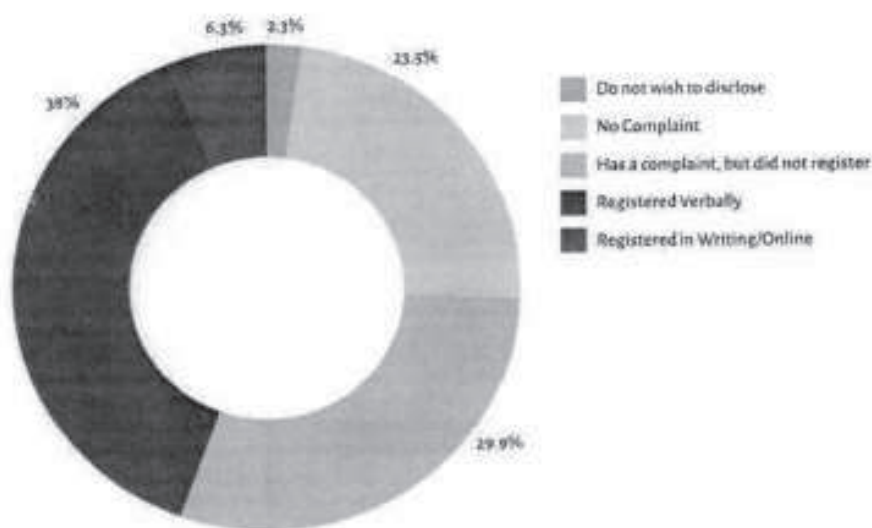
Number of Accidents in each year in 2 cities



In which year did city A record its maximum number of accidents?

- A) 2020
B) 2001
C) 2011
D) 2021

87. Several school students in a state were asked whether they have any complaints about their school buildings. The students were also asked if they had registered their complaints officially. Each student had 5 options to choose from. Their responses are depicted in the graph below.

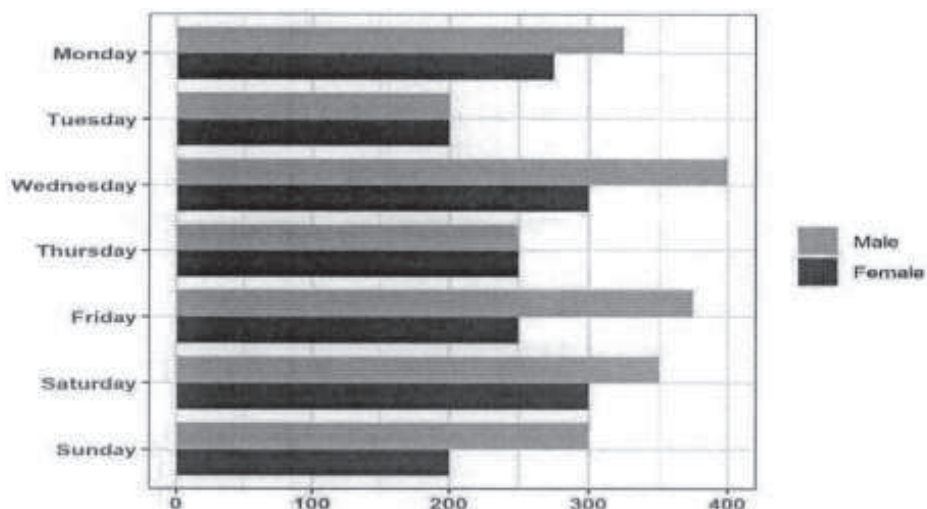


What percentage of students either registered verbally or registered in writing/online?

- A) 67.9%
B) 44.3%
C) 38%
D) 6.3%

88. The following graph shows the daily wages of 2 workers one female and one male in a particular week in a town. The days of the week are shown in the y axis and the wages earned in rupees are shown on the x axis.

Daily wages of two workers in a week



Which of the following statements is true?

- A) The female worker has earned less than the male worker every day of the week.
- B) The female worker has earned the same amount as the male worker everyday of the week.
- C) The female worker has earned the same as the male worker on 2 days of the week.
- D) The female worker has earned more than the male worker on 2 days of the week.

89. Tarun and Karan bought an apartment by investing in a ratio of 2:3 respectively. After three years, they sold the same for 3.5 crore rupees and shared the profit (in the same ratio). If Tarun made a profit of 20 lakhs, how much did they buy the land together for?

- A) 3 crores
- B) 2.5 crores
- C) 2.8 crores
- D) 3.2 crores

90. 'Higher demand for commodities increases their price, leading to an inflation.

Inflation and unemployment are negatively related."

Which of the following can be concluded from the above statements.

A) High demand for commodities causes unemployment

B) Unemployment leads to lower demand

C) Increase in demand reduces unemployment.

D) None of the above.

91. Tanvi drives her car from home to the office. If she drives at a speed of 30 km/hr, she arrives at the office 10 minutes late. However, if she drives at a speed of 45 km/hr, she arrives at the office 10 minutes early. How long does it take for her to reach her office if she is driving at 60km/hr from home?

A) 20 minutes

B) 15 minutes

C) 60 minutes

D) 30 minutes

92. In a city, the car fare is fixed at Rs 40 for the first 2 km and Rs 15 for every kilometer thereafter. If a car driver in the city follows this rule, what is the fare for 80 km?

A) 900 rupees

B) 1210 rupees

C) 1340 rupees

D) 1500 rupees

93. The average weight of two sheep in a farm is 33 kg. If their weights are in the ratio 4:7, then the weight of the heavier one is

A) 30 kg

B) 24 kg

C) 36 kg

D) 42 kg

94. If CALICUT is coded as ECNKEWV, how is MADURAI coded?

- A) OBFVTBK
- B) OCFWTCK
- C) OZETTZK
- D) LBCVQBH

95. A firm guarantees a return amount of Rs. 70,000 after a lock in period on an investment of Rs. 50,000. If they are providing simple interest at 8% per annum, then what is the lock-in period?

- A) 2 years
- B) 5 years
- C) 4 years
- D) 8years

96. 20 people can build a house in 36 days. The number of people required to build the same house in 24 days is (assuming efficiency of each worker is the same)

- A) 30
- B) 25
- C) 35
- D) 32

97. A train of length 150 meters crosses a pole in 5 seconds. What is the speed of the train?

- A) 100 km/hr
- B) 120 km/hr
- C) 112 km/hr
- D) 108 km/hr

98. Which one of the following pairs of words is different from the others?

- A) Bread: Butter
- B) Drink: Tea
- C) Liquid: Water
- D) Cold drink: Pepsi

99. In a certain country, there are only two kinds of people: those who always tell the truth, and those who always lie. Every person either always tells the truth or always lies. Suppose Rajesh and Priya are from that country. Rajesh says: "I always lie and Priya always tells the truth". Based only on the above information, which of the following statements must be true?

- A) Rajesh always tells the truth.
- B) Priya always tells the truth.
- C) Rajesh and Priya always lie.
- D) Not enough information to determine the answer.

100. In a picnic of elderly persons, 25 persons take tea, 20 persons take coffee and 15 persons take milk. Ten persons take both tea and coffee and 8 persons take both milk and coffee. None of them takes tea and milk both and everyone takes at least one of the three beverages. How many persons went to the picnic?

- | | |
|-------|-------|
| A) 25 | B) 35 |
| C) 42 | D) 60 |

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Rough