RRB ALP CBT I 13 Aug 2018 Shift 1 Official Paper (Previous Year Paper)

RRB Assistant Loco Pilot (ALP) • 2018 • 75 questions • 60 minutes • Answer key

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STAGE I (CBT I)

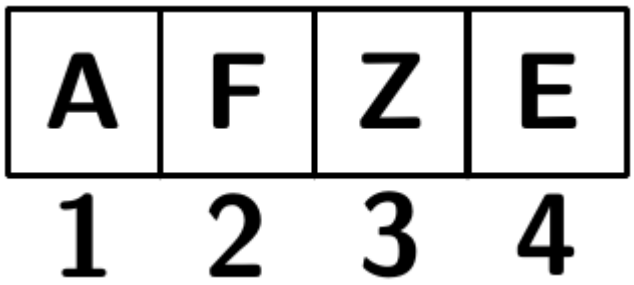
Q1. The value of g on the moon is 1/6^(th) of the value of g on the earth. If a man can jump 1.5 m high on the earth, on the moon, he can jump up to a height of:

(a) 4.5 m
(b) 9 m
(c) 6 m
(d) 7.5 m

Q2. The LCM of 48 and 54 is:

(a) 6 × 8 × 9
(b) 48 × 54
(c) 6 × 2 × 9
(d) 6 × 8 × 3

Q3. Select the figure which does NOT belong to the group.



(a) 4
(b) 1
(c) 3
(d) 2

Q4. In which of the following tissues are the cells living, elongated and irregularly thickened at the corners?

(a) Parenchyma
(b) Sclerenchyma
(c) Aerenchyma
(d) Collenchyma

Q5. At 6% simple interest per annum a sum of money became Rs. 834 in 61/2 years. The sum initially invested was:

(a) Rs. 600
(b) Rs. 626
(c) Rs. 675
(d) Rs. 650

Q6. Complete the following.

XIGP : 172716 ? ZHEJ :

(a) 191601
(b) 191501
(c) 191511
(d) 191510

Q7. Vishnu spends Rs. 5000 in buying 12 tables and some chairs. The cost of one table is Rs. 50 and that of one chair is Rs. 40. What is the ratio of the numbers of the chairs to the number of tables purchased?

(a) 5 : 2
(b) 55 : 6
(c) 5 : 1
(d) 55 : 4

Q8. Pipe A can empty a filled tank in 28 hours while Pipe B can fill the same tank, when empty, in 35 hours. If alternately Pipes A and B are turned on for an hour each time, starting when the tank is full, how long will it take to empty the tank?

(a) 279 hours
(b) 271 hours
(c) 275 hours
(d) 280 hours

Q9. Which of the following physicists explained the existence of Buoyant force?

(a) Archimedes
(b) Blaise Pascal
(c) Charles Augustine de Coulomb
(d) Isaac Newton

Q10. Which of the following is a surface phenomenon?

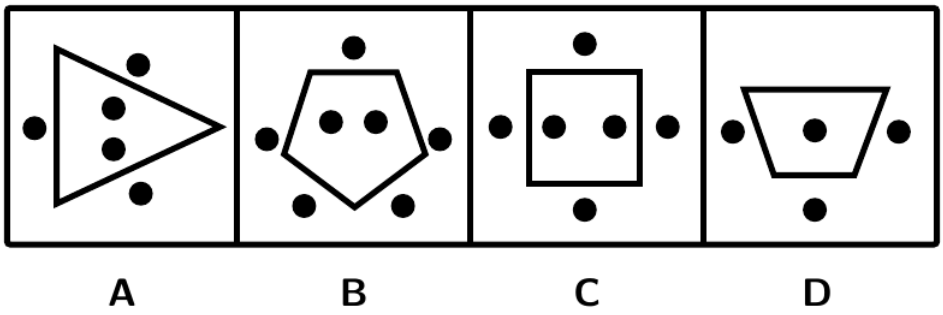
(a) Boiling
(b) Melting
(c) Evaporation
(d) Freezing

Q11. Select the number that does NOT belong in the following group.

71, 73, 77, 79

(a) 79
(b) 71
(c) 73
(d) 77

Q12. Select the figure that does NOT belong in the following group.



(a) A
(b) B
(c) C

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(d) D

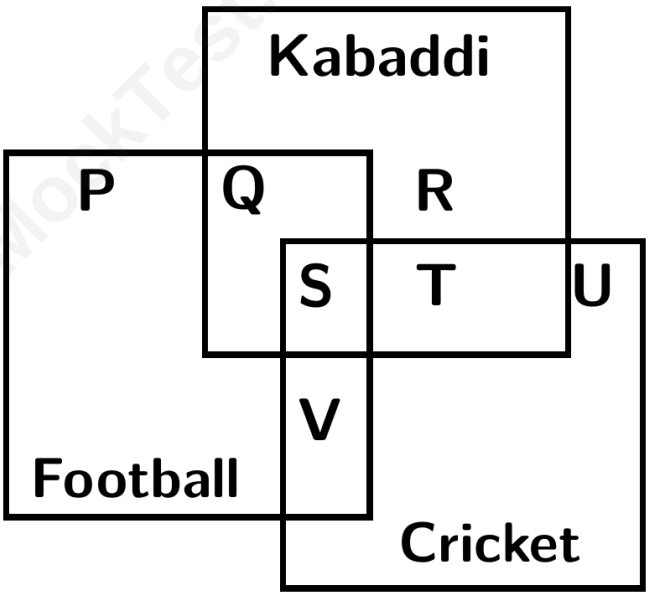
Q13. Which country hosted the Asian Women's Boxing Championship in 2017 when India's iconic boxer Mary Kom won gold?

(a) Vietnam
(b) China
(c) Indonesia
(d) Japan

Q14. Which of the following type of medicines is used to treat indigestion?

(a) Sulpha drug
(b) Antihistamine
(c) Antibiotic
(d) Antacid

Q15. In the given Venn diagram which letter represents all those who play Kabaddi as well as Football and also all the three games?



(a) S + V
(b) S + T
(c) Q + S
(d) S

Q16. Which famous cricketer co-owns the Pro-Kabaddi team from Tamil Nadu named 'Tamil Thalaivas'?

(a) Sunil Gavaskar
(b) Ravi Shastri
(c) KrishnamachariSrikkanth
(d) Sachin Tendulkar

Q17. India's current finance minister Arun Jaitley is a Rajya Sabha member from which state?

(a) Uttar Pradesh
(b) Haryana
(c) Punjab
(d) Gujarat

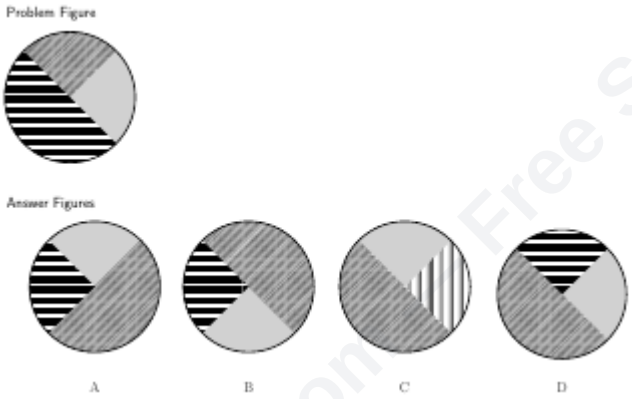
Q18. The difference between Peter and Preeti's ages is 5 years. When they married each other 35 years ago, 4 times Peter's age was the same as 5 times the age of Preeti's. What is the current sum of their ages?

(a) 105 years
(b) 110 years

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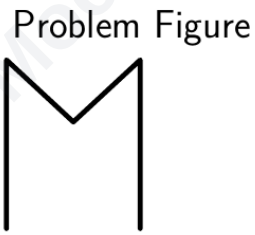
(c) 115 years
(d) 112 years

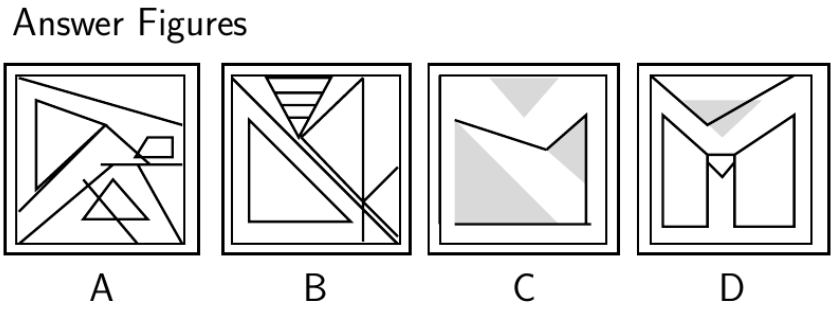
Q19. From the given four figures choose the correct water image of the below figure:



(a) B
(b) A
(c) C
(d) D

Q20. The given Problem Figure is embedded in one of the given Answer Figures. Which is that Answer Figure?





(a) C
(b) D
(c) B
(d) A

Q21. Select the related word from the given alternatives:

Wheel : Spokes ? Fan : _____

(a) Round
(b) Air
(c) Wings
(d) Motor

Q22. Who is the first female pilot to be inducted into the Indian Navy in 2017?

(a) Tessy Thomas
(b) Zaira Wasim
(c) Shubhangi Swaroop

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(d) Dipa Karmakar

Q23. The length of one side of a rhombus is 41 cm and its area is 720 cm². What is the sum of the lengths of its diagonals?

(a) 82 cm
(b) 90 cm
(c) 98 cm
(d) 80 cm

Q24. What does the kinetic energy of an object increase with?

(a) Friction
(b) Time
(c) Density
(d) Velocity

Q25. Find the number which will complete the following series.

0, 1, 8, 27, ?

(a) 25
(b) 16
(c) 125
(d) 64

Q26. If 493 ÷ 29 = 17, then 4.93 ÷ 0.0017 = ?

(a) 290
(b) 0.29
(c) 2.9
(d) 2900

Q27. Who wrote the book 'Two Fates – The Story of My Divorce', which is a parody of Chetan Bhagat's 'Two States – The Story of My Marriage'?

(a) Namita Gokhale
(b) Judy Balan
(c) Swati Kaushal
(d) Arundhati Roy

Q28. In a bag containing red, green and pink tokens, the ratio of red to green tokens was 5 : 12 while the ratio of pink to red tokens was 7 : 15. What was the ratio of green to pink tokens?

(a) 25 : 28
(b) 36 : 7
(c) 28 : 25
(d) 12 : 7

Q29. The gas evolved when sodium carbonate reacts with hydrochloric acid is _____.

(a) Hydrogen
(b) Chlorine
(c) Hydrogen Chloride
(d) Carbon dioxide

Q30. Number of σ and π bonds in benzene, respectively, is:

(a) 12 and 3
(b) 3 and 3
(c) 6 and 3
(d) 9 and 3

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Q31. The people of the Indus Valley Civilisation worshipped _____.

(a) Hanuman
(b) Kali
(c) Ayyappa
(d) Pashupati
(e) None of the above

Q32. What is the type of asexual reproduction in Amoeba?

(a) Spore formation
(b) Binary fission
(c) Vegetative propagation
(d) Budding

Q33. If in a certain code, GREEN is written as ITGGP, then how will PINK be written as in the same code?

(a) TUMJ
(b) KLON
(c) RKQS
(d) RKPM

Q34. The square root of 5329 is:

(a) 97
(b) 96
(c) 94
(d) 73

Q35. Find the smallest square number from among the given options, which is divisible by each of 8, 15 and 20.

(a) 3600
(b) 6400
(c) 14400
(d) 4900

Q36. By what number should 102/3 be divided to obtain 20?

(a) 9/15
(b) 7/15
(c) 8/15
(d) 6/15

Q37. $SnCl_2 + 2HgCl_2 \rightarrow Hg_2Cl_2 + SnCl_4$

In the given reaction:

(a) $HgCl_2$ is oxidised
(b) $SnCl_2$ is oxidised
(c) Hg_2Cl_2 is oxidised
(d) $SnCl_2$ is reduced

Q38. What are the products formed during photosynthesis?

(a) Glucose, Water and Oxygen
(b) Glucose and Oxygen
(c) Starch and Oxygen
(d) Starch, Water and Oxygen

Q39. Two identical resistors, each of 10 Ω, are connected in parallel. This combination, in turn, is connected to a third resistor in series of 10 Ω. The equivalent resistance of the combination is _____.

(a) 30 Ω
(b) 5 Ω
(c) 15 Ω

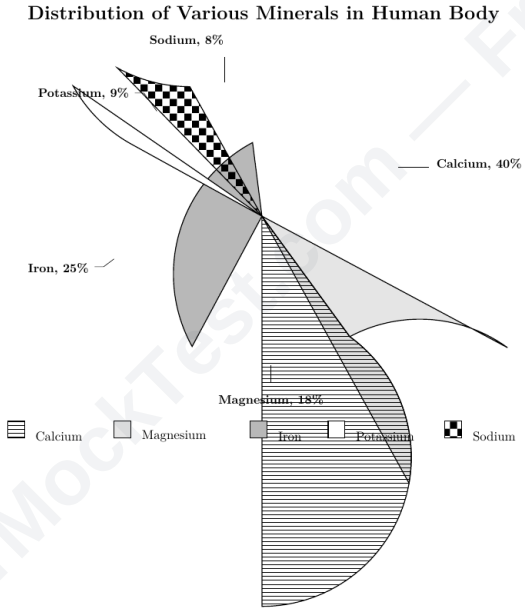
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(d) 10 Ω

Q40. If - means ÷, ÷ means +, × means – and + means ×, then determine the value of 35 – 7 × 14 ÷ 28.

(a) 19
(b) 24
(c) 15
(d) 20

Q41.



The given graph shows the distribution of minerals in the human body.

Based on the given data, if a person has a total of 1000 IU of all the mentioned minerals in his body, what is the units of calcium distributed in his body?

(a) 300 (IU)
(b) 200 (IU)
(c) 400 (IU)
(d) 500 (IU)

Q42. Consider the given argument and decide which of the given assumption/s is/are implicit.

Argument:

Due to IT recession, many software engineers lost their job.

Assumptions:

1. IT sector jobs are not secure.

2. IT sector companies lay off software engineers quite often.

(a) Only assumption 1 is implicit.
(b) Only assumption 2 is implicit.
(c) Both 1 and 2 are implicit.
(d) Neither 1 nor 2 is implicit.

Q43. Samit was given some money to take care of his travel during a 6-day sales drive he had to undertake. However, he had to increase his stay by another 4 days and as a result his average daily travel allowance went down by Rs. 56. What was the amount that was sanctioned to him in the beginning?

(a) Rs. 336
(b) Rs. 560
(c) Rs. 840
(d) Rs. 420

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Q44. 54% of 4000 is:

(a) 2025
(b) 2172
(c) 2232
(d) 2160

Q45. Select the option that depicts the correct mirror image for the given word.



(a)



(b)



(c)



(d)



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Q46. Two numbers are in the ratio of 15 : 11. If their H.C.F is 13, find the numbers.

(a) 195, 143
(b) 196, 143
(c) 195, 141
(d) 195, 142

Q47. Consider the given question and decide which of the following statements is sufficient to answer the question.

How many cows in a herd are black?

Statements:

1. There are in total 60 cows.

2. 40% of them are black.

(a) Both statements taken together are sufficient to answer the question, but neither statement alone is sufficient.
(b) Statement 1 alone is sufficient but statement 2 alone is not sufficient to answer the question.
(c) Statements 1 and 2 together are not sufficient, and additional data is needed to answer the question.
(d) Statement 2 alone is sufficient but statement 1 alone is not sufficient to answer the question.

Q48. The number of free electrons in the outermost shell of carbon atoms in diamond is:

(a) Zero
(b) Two
(c) Four
(d) Three

Q49. 13 years ago, Ram was twice as old as Sunny. Three years from now Sunny's age will be 3/5 of Ram's age. What is Ram's current age?

(a) 64 years
(b) 72 years
(c) 80 years
(d) 77 years

Q50. If the power of a corrective lens in +2.0D, then it is a:

(a) Convex lens
(b) Concave lens
(c) Convex mirror
(d) Concave mirror

Q51. Consider the argument and decide which of the given assumptions is/are implicit.

Argument:

Alexander the Great was mortal.

Assumption:

1. Alexander the Great was human.

2. Alexander the Great was Greek.

(a) Both 1 and 2 are implicit
(b) Only assumption 1 is implicit
(c) Only assumption 2 is implicit
(d) Neither 1 nor 2 is implicit

Q52. This pass is in the Zaskar range of Jammu & Kashmir. The road route from Srinagar to Leh goes through this pass. It has been created by the Indus River. Identify the pass.

(a) Zoji La Pass
(b) Mana Pass
(c) Niti Pass
(d) Rohtang Pass

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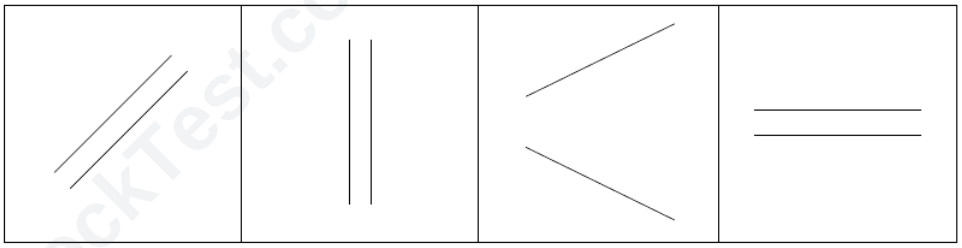
Q53. A ball is dropped from a height of 10 m. It strikes the ground and rebounds up to a height of 2.5 m. During the collision, the per cent loss in the kinetic energy is:

(a) 100%
(b) 25%
(c) 50%
(d) 75%

Q54. Complete the following sentence with the most appropriate option.
Wind energy is considered _____ efficient than solar energy.

(a) sometimes
(b) never
(c) more
(d) often

Q55. Select the figure that does NOT belong in the following group.



(a) 4
(b) 3
(c) 1
(d) 2

Q56. Who among the following dedicated the Chenani-Nashri Tunnel – the longest road tunnel in India – to the nation in April 2017?

(a) Chandrababu Naidu
(b) Pranab Mukherjee
(c) Narendra Modi
(d) Omar Abdullah

Q57. The 2017 Brahmaputra Literary Festival was hosted by which city?

(a) Lucknow
(b) Kolkata
(c) Shillong
(d) Guwahati

Q58. X walks 3 km towards west, and then turns and travels 4 km towards north. The shortest distance between the start and the end point of X's journey is _____.

(a) 7 km
(b) 5 km
(c) 6 km
(d) 8 km

Q59. A train crosses a 375 m long platform in 27 seconds. How long was the train if it was travelling at the speed of 70 km/h?

(a) 525 m
(b) 140 m
(c) 160 m
(d) 150 m

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Q60. Which of the following is NOT a noble gas?

(a) Radon
(b) Krypton
(c) Xenon
(d) Hydrogen

Q61. A and B together can complete a task in 12 days. However, if A works alone, completes half the job and leaves and then B works alone and completes the rest of the work, it takes 25 days in all to complete the work. If B is more efficient than A, how many days would it have taken B to do the work by herself?

(a) 18
(b) 22
(c) 20
(d) 15

Q62. Which of the following is NOT a pollinating agent for cross pollination?

(a) Water
(b) Animals
(c) Wind
(d) Plants

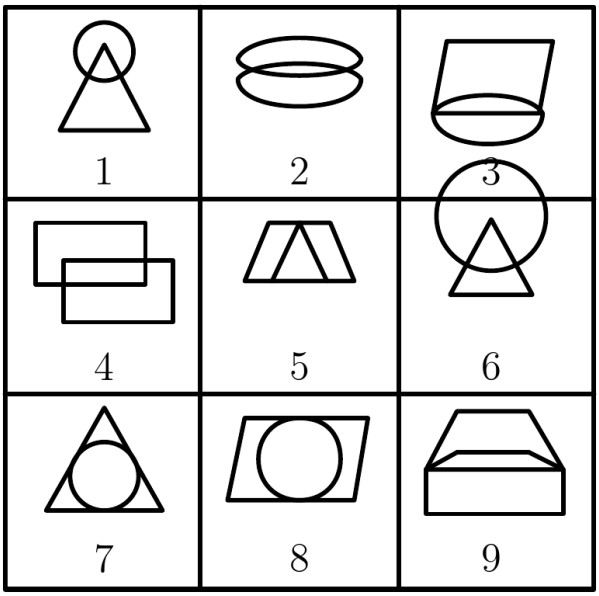
Q63. The length of one side of a rhombus is 13 cm and one of the diagonals is 10 cm. What is the length of the other diagonal?

(a) 24 cm
(b) 23 cm
(c) 25 cm
(d) 22 cm

Q64. Who took over as the new chairman of the Tata Sons owned Vistara Airline in 2016? Prior to this, he was the Managing Director of Titan for a long time.

(a) Ramadurai
(b) Bhaskar Bhatt
(c) Cyrus Mistry
(d) N Chandrashekaran

Q65. Use each of the below figures only once and form three groups. The three groups so formed are:



(a) (1, 3, 5), (2, 7, 9), (6, 4, 8)
(b) (1, 3, 5), (2, 4, 8), (6, 7, 9)

(c) (1, 3, 5), (6, 4, 9), (2, 7, 8)
(d) (1, 3, 5), (2, 4, 9), (6, 7, 8)

Q66. Read the following statements and identify the logically correct conclusion from the given information.

Statement:

Time and tide wait for none.

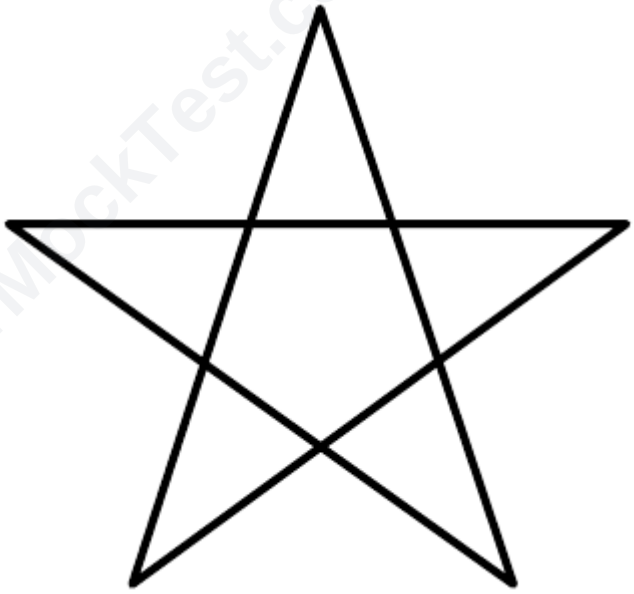
Conclusions:

1. Time is not in anyone's control.

2. One has to keep moving in life, forgetting the bad experiences of the past.

(a) Both conclusions 1 and 2 follow.
(b) Conclusion 2 follows.
(c) Neither conclusion 1 nor 2 follows.
(d) Conclusion 1 follows.

Q67. How many triangles are present in the below figure?



(a) 6
(b) 8
(c) 9
(d) 10

Q68. In the following series, one letter is missing as shown by the question mark (?). Select the missing term from the given options.

Q, O, L, H, ?

(a) D
(b) A
(c) B
(d) C

Q69. Rathin is now 16 years old while his cousin is 7 years. After how many years will Rathin's age be 1.5 times that of his cousin?

(a) 12
(b) 11
(c) 9
(d) 10

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Q70. Which of the following is the third member of the Dobereiner triad, that also features Lithium and Sodium?

(a) Potassium
(b) Boron
(c) Barium
(d) Hydrogen

Q71. Insulators have resistivity of the order of _____.

(a) 10^6Ωm to 10^8Ωm
(b) 10^6Ωm to 10^7Ωm
(c) 10^4Ωm to 10^7 Ωm
(d) 10^4Ωm to 10^(16)Ωm

Q72. In a test, the mean score of 10 boys in a class was 15 while the overall mean score of 25 students in the class was 16.2. What was the mean score of the girls?

(a) 16.8
(b) 17
(c) 16.5
(d) 17.5

Directions

Direction: Read the given table and answer the following question.

Parties and Seats won					
Serial number	Party	South	East	West	North
1	A	40	37	35	27
2	B	6	26	76	86
3	C	83	71	4	21
4	D	1	7	3	11

Q73. In south, what is the percentage of seats won by party A (round to one decimal)?

(a) 30%
(b) 30.8%
(c) 30.5%
(d) 31%

Q74. A curved mirror where the reflecting surface is curved inwards is called a _____.

(a) Concave mirror
(b) Plano-convex mirror
(c) Plane mirror
(d) Convex mirror

Q75. Argument:

Warning: Consumption of alcohol is injurious to health.

Assumptions:

1. This warning is not required.
2. Non-alcoholic people are healthy.

(a) Neither 1 nor 2 is implicit
(b) Only assumption 1 is implicit
(c) Only assumption 2 is implicit
(d) Both 1 and 2 are implicit

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ANSWER KEY

1	a	2	a	3	a	4	a	5	a	6	a	7	a	8	a	9	a	10	a
11	a	12	a	13	a	14	a	15	a	16	a	17	a	18	a	19	a	20	a
21	a	22	a	23	a	24	a	25	a	26	a	27	a	28	a	29	a	30	a
31	a	32	a	33	a	34	a	35	a	36	a	37	a	38	a	39	a	40	a
41	a	42	a	43	a	44	a	45	a	46	a	47	a	48	a	49	a	50	a
51	a	52	a	53	a	54	a	55	a	56	a	57	a	58	a	59	a	60	a
61	a	62	a	63	a	64	a	65	a	66	a	67	a	68	a	69	a	70	a
71	a	72	a	73	a	74	a	75	a										

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