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RRC Group D Set - 1

Duration - 1:30 Hrs

Exam RRC Group D		Total Questions 100			
Marks For Correct Answer 1	Negative Meaning 0.33	Mathematics 25	General Intelligence And Reasoning 30	General Awareness 25	General Science 20

Mathematics

1. The LCM of 16, 24, 36, 52 and 54 is?
1 . 5618
2 . 5616
3 . 5216
4 . 432

2. $\left(\frac{55}{11}\right) + (18 - 6) \times 9 = ?$
1 . 100
2 . 110
3 . 113
4 . 115

3. LCM of two c-prime numbers a and b is (a is greater than b):
1 . a
2 . b
3 . ab
4 . a + b

4. The LCM and HCF of two numbers are 4284 and 32, respectively. If one of the numbers is 672, then the second number is:
1 . 64
2 . 92
3 . 102
4 . 204

5. Which of the following will yield a recurring decimal?
1 . 24/30
2 . 24/60
3 . 24/90
4 . 24/120

6. Which of the following doesn't fit into the series?
$5 - 1 - 96, 27 - 1 - 96, 18 - 2 - 96, 12 - 3 - 96, 2 - 4 - 96$

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1 . 18-2-96
2 . 12-3-96
3 . 5-1-96
4 . 27-1-96

7. A natural number, when divided by 9, 10, 12 or 15, leaves a remainder of 3 in each case. What is the smallest of all such numbers?
1 . 63
2 . 183
3 . 123
4 . 153

8. When $7^{21} + 7^{22} + 7^{23} + 7^{24}$ is divided by the remainder is:
1 . 0
2 . 5
3 . 7
4 . 17

9. I gain 19% if I sell an article for ₹ 595. What would be my gain or loss percentage ifl sell it for ₹ 475?
1 . Gain 10 %
2 . Loss 10%
3 . Loss 5 %
4 . Gain 5 %

10. The length and breadth of a rectangle is in the ratio of 3: 1. If its perimeter is 96 m, then what is the length of the rectangle?
1 . 12 m
2 . 24 m
3 . 36 m
4 . 48 m

11. What Principal will yield ₹ 120 as Simple Interest at 6% p.a. in 10 years?
1 . ₹ 180
2 . ₹ 210
3 . ₹ 200
4 . ₹ 120

12. Every month, kritika spends Of her income on house rent and 60% of the rest on household expenditure. If she saves ₹ 6300 per month, what is her total monthly income?
1 . ₹ 20,500
2 . ₹ 22,500
3 . ₹ 25,500
4 . ₹ 22,000

13. Ranjith can complete a task in 25 days while Anji can finish it in 20 days. They work together on the task for 5 days and then Ranjith leaves, In how many days will Anji finish the remaining work?
1 . 9 days
2 . 10 days
3 . 11 days
4 . 15 days

14. 48 people could complete a task in 17 days. After 6 days, 4 of the workers left. How many days from then will it take to complete the task?
1 . 13

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2 . 12
3 . 15
4 . 16

15. Walking at a speed of 10 km/hr, Madhu reaches her university 15 minutes late. Next time, she increases her speed by 2 km/hrl, but she is still late by 5 minutes. The distance of the university from her house is:
1 . 10 km
2 . 15 km
3 . 20 km
4 . 30 km

16. The height and the slant height of a right circular cone are 24 cm and 25 cm, respectively. Considering as 22/7, find the curved surface area of the said cone.
1 . 572cm^2
2 . 550cm^2
3 . 539cm^2
4 . 528cm^2

17. A water tank is filled in hours by three pipes X Y and Z the pipe Z is thrice as fast as Y and Y is twice as fast as X. How much time will pipe X alone take to fill the water tank?
1 . 35 hrs
2 . 40 hrs
3 . 45 hrs
4 . 60 hrs

18. If the present ages of a father and his son are 48 years and 28. 8 years old respectively, then the father can say to his son, I was _____ of your present age you were bom".
1 . one-third
2 . two-third
3 . one-fifth
4 . half

19. The cost of leveling a triangular piece of land whose sides are 72 m, 30 m and 78 m respectively at the rate of 20 paisa square metre is:
1 . ₹ 216
2 . ₹ 200
3 . ₹ 220
4 . ₹ 210

20. A parallelogram PQRS, the length of whose sides are 8 cm and 12 cm, has one diagonal 10 cm long . The length of the other diagonal is approximately:
1 . 17 cm
2 . 17.5 cm
3 . 17.8 cm
4 . 18 cm

21. Out of the 60 students of a class, 29 took Mathematics, 32 took Biology and 8 took none of the two subjects. How many students took both Mathematics and Biology?
1 . 6
2 . 7
3 . 8
4 . 9

22. $\mathrm{X}+\mathrm{Y}=3, \mathrm{XY}=2,$ find the value of $\mathrm{X}^3-\mathrm{Y}^3$

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1 . 3
2 . 5
3 . 7
4 . 9

23. The mean of 21 observations (all different) is 40. If each observation greater than the median is increased by 21, then the mean of observations will become:
1 . 50
2 . 50.5
3 . 30
4 . 45

24. If $a - \frac{1}{a} = 7,$ then $a^2 + \frac{1}{a^2} =?$
1 . 51
2 . 52
3 . 53
4 . 54

25. The angle of depression of the foot of a building from the top of a tower 46 m away is 60°. what is the height of the tower?
1 . 46 m
2 . $23\sqrt{3}\text{m}$
3 . $46\sqrt{3}\text{m}$
4 . 23 m

General Intelligence Reasoning

26. Spandana is the sister of Raju. How is Raju's father's sister related to Spandana?
1 . Aunt
2 . Sister
3 . Mother
4 . Grandmother

27. Teacher is related to Class in the same way Driver is related to_____.
1 . Vehicle
2 . Pans
3 . Wheel
4 . Brake

28. F is the Father of S and D. D's Paternal aunt's daughter is E. How is F related to E?
1 . Daughter-in-law
2 . Daughter
3 . Nephew
4 . Maternal Uncle

29. Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s: statement(s).
Statement:
I. All razors are blades.
II. All blades are metals.
Conclusions:

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I. All metals are razors.
II. Some metals are blades.
1 . Only conclusion 2 follows.
2 . All the conclusions follow.
3 . Only conclusion I follows.
4 . Neither conclusion follows.

30. Read the given statements and the following conclusions carefully and select which of the conclusions follow(s) from the statements.
Statements:
I. All blue are colours.
II. All colours are shades.
Conclusions:
I. All blue are shades.
II. Some shades are colours.
1 . Only conclusion 2 follows.
2 . All the conclusions follow.
3 . Only conclusion 1 follows
4 . No conclusions follow.

31. In a code language, if LUCK is written as L2UlC3kI, then what is the last digit for the code for XEROX In language?
1 . 1
2 . 2
3 . 3
4 . 4

32. Given is a statement followed by two arguments numbered I and II. Consider the statement and decide which of the arguments is strong.
Statement:
Is the choice of junk food a better option to create interest in eating in children?
Arguments:
I. Yes, the best way to create interest is to give the food a child likes.
II. No, junk food is the reason behind obesity, heart diseases, diabetes and other health problems important to induce healthy eating habits in children.
1 . Only argument I is strong.
2 . Only argument II is strong.
3 . Neither argument I nor II is strong.
4 . Both arguments I and II are strong.

33. Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions islare implicit in the statement.
Statement:
I. All the species of plants and animals are part of biodiversity and ecosystems and play major role in the overall the environment.
Assumptions:
I. Preserve or create a backyard habitat. Save as many native plants as you can when building or lands.
II. One of the major goals of sustainability is to preserve biodiversity. All life on Earth is connected through the flow of energy (planetary food web), and each time a species becomes endangered or 10 to extinction, one more pan of that energy flow is lost.
1 . Only assumption I is implicit.
2 . Only assumption II is implicit.
3 . Neither assumption I nor II is implicit.
4 . Both assumptions I and II are implicit.

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34. Consider the given statement and decide which of the following assumptions islar implicit in the statement.
Statement:
I. The headmistress called for a meeting for all staff members to discuss on discipline issues.
Assumptions:
I. There were some discipline issues that were raised earlier.
II. The headmistress wants to address all of them together.
1 . Only I is implicit.
2 . Only II is implicit.
3 . Neither I nor II is implicit.
4 . Both I and II are implicit.

35. Read the statement below followed by two arguments.
Statement:
Should there be strict laws for maintaining ponds and lakes?
Arguments :
I. Yes, it will naturally maintain the water level for generations to come. It affects the migration of birds too.
II. No, it comes in the way of modern urban development and growth.
Which argument(s) of the below is/are strong in the context of the statement?
1 . Both arguments I and II are strong.
2 . Only argument II is strong
3 . Neither argument I nor II is strong
4 . Only argument I is strong

36. Find the missing number in the following series: 27, 29, 33, ?, 57
1 . 41
2 . 40
3 . 35
4 . 30

37. If 'Q' means '+', 'J' means 'x', 'T' means '-' and 'K' means '', then what is the value of 18K3Q7J2T8?
1 . 18
2 . 15
3 . 12
4 . 10

38. Find the next in this series:
YC3, XF6, W19,_____
1 . VL12
2 . UL12
3 . UM12
4 . VM12

39. The HCF of two numbers is 11 and their LCM is 330. If one of the number is 55. Find the other number.
1 . 66
2 . 77
3 . 33
4 . 44

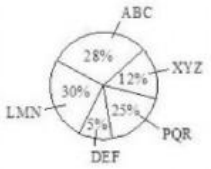
40. The CO_2 emissions in million metric tons over 3 years are given in the following table.

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Year	Domestic CO_2 emission
2015	100
2016	110
2017	150

1 . 26.36%
2 . 36.45%
3 . 63.63%
4 . 36.36%

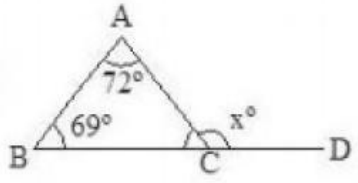
41. The given piece chart shows information about the mobile phone manufacturing companies in India. The total number of mobile phone units manufactured is 12,40,000 units.



Which company produces the maximum number of mobile phones?
1 . ABC
2 . XYZ
3 . LMN
4 . PQR

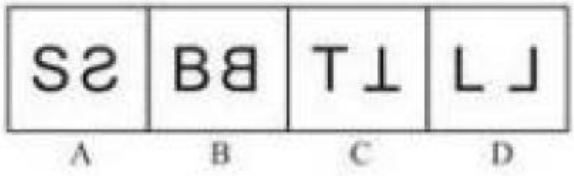
42. You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.
M, A, N and K are standing in a row. Based on the following information, if we arrange shortest to tallest, w standing last?
Statements:
I. A is shorter than K.
II. M is shorter than A.
1 . Statement I and 2 together are sufficient to solve.
2 . Statements I and 2 together are not sufficient.
3 . Statements I alone is sufficient.
4 . Statement 2 alone is sufficient.

43. Read the given question and decide which of the following information is sufficient to answer the question. What is the value of ∠ACD?



I.
II. $\angle ACB = 180 - x^\circ$
1 . Only 1 is sufficient
2 . Only 2 is sufficient
3 . Either 1 or 2 is sufficient
4 . Neither 1 nor 2 is sufficient

44. Find the odd one out?



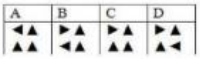
1 . A
2 . B
3 . C
4 . D

45. Select the option figures that will complete the series of question figures.

Question figures



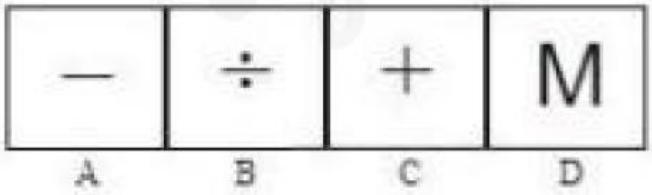
Option figures



1 . A
2 . D
3 . C
4 . B

46. Which of the following does NOT belong to this group?
Fox
Goat
Horse
Zebra
1 . A
2 . B
3 . C
4 . D

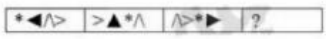
47. Find the odd one out.



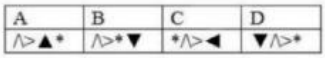
1 . A
2 . B
3 . C
4 . D

48. Select the option figure that will complete the series of question figures.

Question figures



Option Figures



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1 . A
2 . B
3 . C
4 . D

49. Find the odd one out.

A	B	C	D
5E	J9	T20	25Y

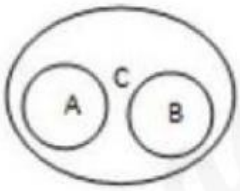
1 . A
2 . B
3 . D
4 . C

50. Which of the following correctly represents the relationship between
A) Peak
B) Clouds
C) Mountain

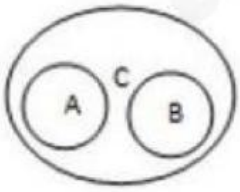
1 .



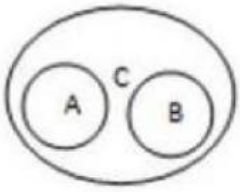
2 .



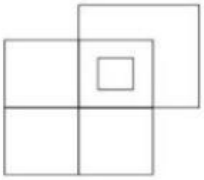
3 .



4 .

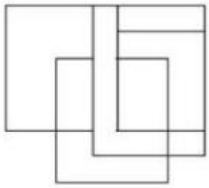


51. Find the number of squares in the following figure.



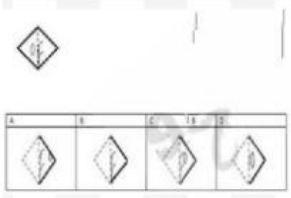
1 . 5
2 . 6
3 . 7
4 . 8

52. Find the number of squares in the following figure.



1 . 5
2 . 6
3 . 7
4 . 8

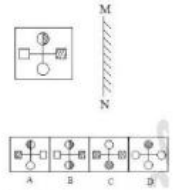
53. Find the number of squares in the following figure.



1 . A
2 . B
3 . C
4 . D

54. Raju walks 4 km towards East. Then, he turns left and walks another 3 km. In which direction and at what distance he is from his initial position ?
1 . North-East, 5 km
2 . North-West, 5 km
3. South-East, 5 km
4 . South- West, 5 km

55. Choose the mirror image for the following figure when the mirror is kept at the NIN line.



1 . A
2 . B
3 . C

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4 . D

General Science

56. Weight of an object on the moon is _____ the weight of the object on earth.
1 . 1/5th
2 . 1/2
3 . 1/6th
4 . equal to

57. The force that a neutron exerts on a proton inside an atom is:
1 . Nuclear Force
2 . Gravitational Force
3 . Tidal Force
4 . Electrostatic Force

58. Weight of a body is maximum at the :
1 . Equator
2 . Pole
3 . Tropics
4 . Subtropics

59. "When a card placed over a tumbler is flicked with the finger, the coin placed over it falls in the tumbler'.
1 . Law of conservation of movement
2 . Law of Inertia
3 . Law of conservation of energy
4 . Newton’s third law of motion

60. The mass number of an isotope of an element is 298. If its nucleus has 189 neutrons, what is its atomic number?
1 . 298.0
2 . 189.0
3 . 109.0
4 . 487.0

61. A person does some work of 1,000 J in 2 s. His power will be ____ .
1 . 25 W
2 . 50 W
3 . 500 W
4 . 1000W

62. A person lifts luggage of 20kg from the ground and puts it on his head 2 m above the ground. Calculate the work done by him. ($g = 10\ ms^{-2}$)
1 . 40 J
2 . 400 J
3 . 200 J
4 . 20 J

63. Which of the following cannot be used for making lenses?
1 . Plastic
2 . Water

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3 . Glass
4 . Soil

64. The increasing order of the refractive index of certain materials is (left to right)_____ .
1 . Ice, Kerosene, Benzene, Rock Salt
2 . Kerosene, Ice, Benzene, Rock Salt
3 . Rock Salt, Ice, Benzene, Kerosene
4 . Rocksalt, Benzene, Kerosene, Ice

65. Constantan is alloyed fmm ____ metals.
1 . Cu, Ni
2 . Cu, Ni, Mn
3 . Ni , Cr , Mn , Fe
4 . Ni, Ti , Fe , Cr

66. Choose the correct order of electrical resistivity of metals.
1 . Hg>Ni>W>Ag
2 . Ag>W>Ni>Hg
3 . Ag>Ni>Hg>W
4 . Ag>W>Hg>Ni

67. ____ is not a subatomic particle of an atom.
1 . Proton
2 . Xenon
3 . Electron
4 . Neutron

68. If the current flowing through a circuit is 0.6 A for 6 mins, the amount of electric charge flowing through it is _____.
1 . 36 C
2 . 360 C
3 . 60 C
4 . 216 C

69. _____ is a deliquescent compound .
1 . Quick lime
2 . Phosphorous pentoxide
3 . Sulphuric acid
4 . Magnesium chloride

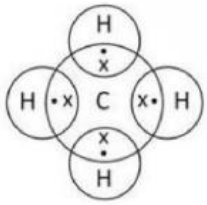
70. _____ solution is used to treat bee sting .
1 . Lemon Juice
2 . Milk
3 . Vinegar
4 . Baking soda

71. Give an example of a salt which gives an aqueous solution of pH less than 7,
1 . Sodium chloride
2 . Ammonium Chloride
3 . Sodium carbonate
4 . Sodium bicarbonate

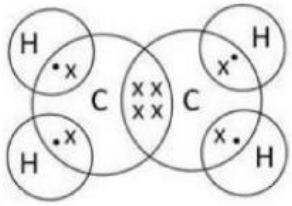
72. The electronic dot and cross structure of ethene is _____ .

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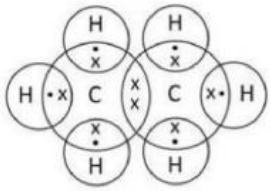
1 .



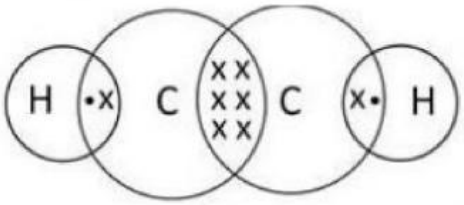
2 .



3 .



4 .



73. Which property of metals enables production of metallic foils?
1 . Conductivity
2 . Ductility
3 . Malleability
4 . Sonority

74. The atoms of Germanium, Arsenic, Selenium and Bromine contain _____ shells.
1 . 4
2 . 3
3 . 5
4 . 7

75. How many elements are present in the 18th group of the Modern Periodic Table?
1 . 5
2 . 6
3 . 4
4 . 2

76. Which of the following is not a characteristic of Pisces?
1 . Exoskeleton of scales
2 . Exoskeleton of scales
3 . Skeleton of bone/cartilage
4 . Breathing through gills

77. Which tissue makes the plant hard and stiff?
1 . Collenchyma
2 . Xylem

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3 . Parenchyma
4 . Sclerenchyma

78. Fishes have a _____ chambered heart.
1 . Two
2 . Three
3 . Four
4 . Single

79. Which of the following is a work done by the placenta tissue in humans?
1 . Remove waste matter from the embryo
2 . Removes waste matter from the emblY0 and provide nutrition to the embryo
3 . Provide nutrition to the embryo
4 . Support the embryo

80. Rise in sugar levels in blood is detected by the cells of:
1 . Liver
2 . Pancreas
3 . Gallbladder
4 . Kidney

General Awareness & Current Affairs

81. How many medals did India bag at the Jordan Junior and Cadet Open Table Tennis (TT) tournament in 2017 and ended as the second best finisher?
1 . 24
2 . 20
3 . 23
4 . 15

82. Name the country which will host the 2019 Combined World cup for shooting?
1 . Sri Lanka
2 . Pakistan
3 . Nepal
4 . India

83. _____ received the polly Umrigar Award , and is the first Indian cricketer to get it on three occasions
1 . Ravi Shastri
2 . Ms Dhoni
3 . Sachin Tendulkar
4 . Virat Kohli

84. Which movie won the national award for Best Film on social issues at the 64th National Film Awards, 2017?
1 . Pink
2 . Airlift
3 . Dangal
4 . Sultan

85. Who among the following is the author of the book A Book of Light: When a Loved One Has a Different Mind'?

1 . Amish Tripathi
2 . Arundhati Roy
3 . Harper Lee
4 . Jerry Pinto

86. Which movie has won 'the best picture award' in the 90th Oscar awards?
1 . Three Billboards
2 . Coco
3 . Phantom thread
4 . The shape of water

87. Who was awarded Banga Bibhushan, the highest civilian award of West Bengal, for 2018?
1 . Victor Banerjee
2 . Aparna Sen
3 . Soumitra Chatterjee
4 . Asha Bhosle

88. Who among the following is the first woman lawyer to be directly appointed as a judge of the Supreme Court?
1 . Menaka Guruswamy
2 . Vrinda Grover
3 . Indu Malhotra
4 . Meenakshi Arora

89. Which company has been conferred with the ‘Startup Of the year 2017’ award at the 7th Business Awards , in New Delhi?
1 . Milkmaid
2 . Milkbasket
3 . Milkbar
4 . Milkdairy

90. As of 2018, who is the union minister of the Ministry of Women and Child Development (MWCD?
1 . Renuka Chaudhary
2 . Krishna Tirath
3 . Maneka Gandhi
4 . Smriti Irani

91. Which of the following Chief Ministers of India had been presented the Transformative Chief Minister Award' by the Us-India Business council (USIBC) in May 2017?
1 . K. Chandrashekhar Rao
2 . N. Chandrababu Naidu
3 . Nitish Kumar
4 . Yogi Adityanath

92. Who approved 20 lakh houses for urban poor under the PM Awas Yojna recently?
1 . Sushma Swaraj
2 . Smriti Irani
3 . Arun Jaitely
4 . Shri Venkaiah Naidu

93. What is the term of office of the members of Rajya Sabha?
1 . 2 years
2 . 7 years
3 . 4 years
4 . 6 years

Aglasem Career

94. Name the viceroy who inaugurated New Delhi as the new capital of India in the year 1931.
1 . Lord Irwin
2 . Lord Wellesley
3 . Lord Cornwallis
4 . Lord Curson

95. What was the name of the pally launched by Subhash Chandra Bose in 1939 ?
1 . Communist Party Of India
2 . Socialist Party Of India
3 . All India Forward Bloc
4 . Azad Bengal Fauj

96. Where are the Garo Hills located?
1 . Nagaland
2 . Meghalaya
3 . Assam
4 . Mizoram

97. Rama Setu is located in which of the following?
1 . Palk Strait
2 . Bering Strait
3 . Strait Of Gibraltar
4 . Kiel Canal

98. In which year was Bombay Stock Exchange (BSE) established?
1 . 1947
2 . 1875
3 . 1920
4 . 1960

99. With whom did the Government of India sign a S 120 million loan agreement To complete double-tracking and electrification Of railway tracks along high-density corridors to improve the operational efficiency of India's railway
1 . Asian Development Bank
2 . European Bank
3 . African Development Bank
4 . International Monetary Fund (IMF)

100. How much loan amount was sanctioned by The World Bank to help India develop its first modern waterway?
1 . $375 million
2 . $475 million
3 . $575 million
4 . $275 million

Aglasem Career

Answer Key

1	2	**2**	3	**3**	3	**4**	4	**5**	3	**6**	2	**7**	2	**8**	2	**9**	3	**10**	3
11	3	**12**	2	**13**	2	**14**	2	**15**	1	**16**	2	**17**	3	**18**	2	**19**	1	**20**	2
21	4	**22**	3	**23**	1	**24**	1	**25**	3	**26**	1	**27**	1	**28**	4	**29**	1	**30**	2
31	4	**32**	2	**33**	2	**34**	1	**35**	4	**36**	1	**37**	3	**38**	1	**39**	1	**40**	4
41	3	**42**	2	**43**	1	**44**	3	**45**	3	**46**	1	**47**	4	**48**	4	**49**	2	**50**	3
51	3	**52**	4	**53**	3	**54**	1	**55**	1	**56**	3	**57**	1	**58**	2	**59**	2	**60**	3
61	3	**62**	2	**63**	4	**64**	1	**65**	1	**66**	1	**67**	2	**68**	4	**69**	2	**70**	4
71	2	**72**	2	**73**	3	**74**	1	**75**	2	**76**	2	**77**	4	**78**	1	**79**	2	**80**	2
81	1	**82**	4	**83**	4	**84**	1	**85**	4	**86**	4	**87**	4	**88**	3	**89**	2	**90**	3
91	2	**92**	4	**93**	4	**94**	1	**95**	3	**96**	2	**97**	1	**98**	2	**99**	1	**100**	1

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