



EXAMPLES INTIONS, OPPOSITE MUKEREITE NACAR PLOIDS
23. (C) We know that
$$\cos 90^{n} = 0$$

So, $\cos 10^{n} \cos 20^{n} \cos 20^{n} \cos 40^{n} \dots$
 $\cos 10^{n} \sin 20^{n} = \frac{1}{3}$
 $24.$ (D) $x = 31 - 8\sqrt{15} = (4 - \sqrt{15})$
 $25.$ (C) $x^{2} + y^{2} + 4y + 4 = 0$
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 $27.$ (D) Let the total no. of sides $= n$
 $x = 0$, and $y = -2$
 Now , $\sqrt{x} + \frac{1}{x} = 8$
 $25.$ (C) Let the total no. of sides $= n$
 $x = 0$, and $y = -2$
 Now , $\sqrt{y} = \frac{1}{-(2^{n})^{n}} = \frac{120^{n}}{n}$
 $26.$ (C) Let the total no. of sides $= n$
 $x = 12$
Hence, Required number of sides $= 12$.
27. (B) ATQ.
28. (C) Required percentage
 $\sin ABOC = 12B$
 $BC = \sqrt{6c^{2} - 0B^{2}}$
 $24.$ (C) Required percentage
 $\sin ABOC = 12B$
 $BC = \sqrt{6c^{2} - 0B^{2}}$
 $24.$ (C) Required percentage
 $\sin ABOC = 120$
 $and, AC = 2BC = 48$ cm
 $36.$ (C) Required percentage
 $and, AC = 2BC = 4$
 $and, AP = \frac{AB}{2} = 5$ m
 $OM = 5 m = 0^{2}$
 $and, AP = \frac{AB}{2} = 5$ m
 MOM , $C^{2} = \frac{122}{2} = 7$ m,
 $QM = 5 m = 0^{2}$
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 $and, AP = \frac{AB}{2} = 5$ m
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 $QM = 5 m = 0^{2}$
 $MDM = 100 = 50^{2} = 50 \text{ m}^{2}$
 $QM = 5 m = 0^{2}$
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 According to the question,
$$\neg 4 + 5 + 9 = 4^{2}$$

 $\neg a = 2 + 3 = 6$
 67. (C) Let required rate = R%
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 $\neg a = 2 + 3 = 6$
 67. (C) Let required rate = R%
According to the question
 $= 228/216$
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 $= 19:18$
 67. (C) Let required rate = R%
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 $= 19:18$
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According to the question
 $= 19:18$

 61. (B) Let height of cone = h
According to the question
 $= 6(8/3) \times 5 + (\frac{\sqrt{3} \times (6)^{2}}{4}) \times 2$
 $= 90 + 18\sqrt{3}$
 $= 7360$
 $= 880 + 2800 + 360R = 7360$
 $= 880 + 2800 + 360R = 7360$
 $= 880 + 2800 + 360R = 7360$

 62. (D) Total surface area of prism
 $= (6 \times 3) \times 5 + (\frac{\sqrt{3} \times (6)^{2}}{4}) \times 2$
 $= 90 + 18\sqrt{3}$
 $= 18 (5 + \sqrt{3} (m^{2})$
 68. (C) Let the morey bornwed = $R = P$
 $\frac{A}{100} \times 10^{2} \times 3 + P \times \frac{13}{100} \times 3$
 $= 8800$

 63. (B) AD $- \sqrt{(2)^{2} + (2)^{2}}$
 $= 2 \text{ cm}$
Area of LNOP = $(2\sqrt{2}) = 8 \text{ cm}^{2}$
 $PM = \sqrt{(PD)^{2} + (MD)^{4}}$
 $= 2 \text{ cm}$
Area of LNOP = $2^{2} = 4 \text{ cm}^{2}$
 $= 0 + 6(1 + 1)^{2} + 12^{2} + 13^{3} + + 15^{3}$
 $= x = (\frac{15(15 + 1)}{1 - \frac{1}{2}}^{2} - (120)^{2} = 14400$
 $= 11375$
 70. (B) Let required amount = $7 \times A$
According to the question
 $36900 = (\frac{20}{21} + (\frac{20}{21})^{2}) x$
 $= x = 719845$

 64. (B)
65. (D) Let $x = 11^{2} + 12^{2} + 13^{3} + + 15^{3}$
 $= x = (\frac{15(15 + 1)}{2})^{2} + (120)^{2} = 14400$
 $= 3025$
 71. (B)
Zinc: Copper: tim. Zinc: Copper: tim. 2inc is $3 = \frac{3}{2} + \frac{5}{2} = \frac{5}{2} + \frac{5}{6}$
 $= 7 : 9 : 10$
 $Required weight = \frac{10}{2} = \frac{5}{2} + \frac{5}{6}$
 $= 3 : 11375$

 64. (B)
65. (C) Let $x = 11^{2} + 12^{2} + 13^{3} + + 10^{5} - y$
 $= y = (\frac{10(11)}{2})^{2} = (55)^{2} = 3025$
 $Now, Required sum = x -$

Campus**B** Campus Pyt Ltd2007, OUTRAMUNES, ISTRIOR, OPPOSITE MUKHERIET RAGAR POLICE STATION, DELH-11000973. (D) Let
$$p = r + 1 - 3$$

 $q = + bri et 3 (ar b + c) are 1 - 5 $(ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + ct) 3 (ar b + c) are 1 - 5 (ar + bri + c) 3 (ar + bri + c) are 1 - 5 (ar + c) are 1 - 5 ($$

Campus K D Campus Pvt. Ltd 2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009 91. (C) Required percentage 86. (B) $\frac{P}{Q} = \frac{Q}{R}$, $\Rightarrow Q^2 = PR$ $\left(3276000 \times \frac{15}{100} \times \frac{3}{5}\right) + \left(3276000 \times \frac{20}{100} \times \frac{3}{4}\right)$ $\Rightarrow Q^4 = P^2 R^2$ $= \frac{100 \times \frac{+\left(3276000 \times \frac{12}{100} \times \frac{3}{8}\right)}{3276000}}{3276000}$ $Q^4 Q^4 = P^4 R^4 \Rightarrow \frac{P^4}{Q^4} = \frac{Q^4}{R^4}$ $= \frac{933660}{3276000} \times 100 = 28.5\%$ $\Rightarrow P^2: R^2$ 87. (D) $\frac{M_1D_1}{W_1} = \frac{M_2D_2}{W_2}$ 92. (D) Required number $= \left(3276000 \times \frac{25}{100} \times \frac{7}{9}\right) + \left(3276000 \times \frac{20}{100} \times \frac{4}{5}\right)$ $\Rightarrow \frac{24 \times 24}{24} = \frac{8 \times x}{8}$ = 637000 + 5241601161160 $\Rightarrow x = 24$ sec. 93. (D) Required ratio 88. (C) Let A Contribute $\gtrless x$ $=\frac{3276000\times\frac{9}{100}\times\frac{4}{7}}{3276000\times\frac{8}{100}\times\frac{3}{5}}$ $\frac{x \times 4}{1560 \times 8} = \frac{1}{8} \times \frac{24}{13}$ $x = \frac{3 \times 1560 \times 8}{13 \times 4} = \frac{24 \times 120}{4}$ $= \frac{9 \times 4 \times 5}{7 \times 8 \times 3} = \frac{15}{14}$ *x* =₹ 720 Let B Contribute ₹ y(B) Required number = $3276000 \times \frac{15}{100} \times \frac{3}{5}$ $\frac{y \times 6}{720 \times 4} = \frac{1}{3} \times \frac{8}{1}$ 94. = 294840 $y = \frac{8 \times 4 \times 720}{6 \times 3} = 32 \times 40$ $3276000 \times 15 \times 100$ $\frac{\frac{100}{100} \frac{110}{110}}{3276000 \times \frac{20}{100} \times \frac{100}{112}}$ ₹ 1280 95. (A) Required Ratio = 89. (A) 17 and 19 are co-prime numbers, So the number must be divisible by 17×19 . 90. (D) $\pi R^2 = 770$ $= \frac{15 \times 112}{20 \times 110} = 42:55$ $\Rightarrow R^2 = \frac{770 \times 7}{22} = 35 \times 7$ 96. (B) Required ratio = $\frac{12699}{92} \approx 138$ \Rightarrow R = $7\sqrt{5}$ π RL = 814 97. (A) Countries B, C and F exhibited a trade $\Rightarrow L = \frac{814 \times 7}{22 \times 7\sqrt{5}} = \frac{37}{\sqrt{5}}$ surplus. 98. (B) Total export = 28819 Lakhs Total import = 43431 Lakhs and. $L^2 - R^2 = H^2$ deficit = 43431-28819 $H = \frac{12}{\sqrt{5}}$ = 14612 Lakhs 99. (A) The Highest trade deficit shown by country A Volume = $\frac{1}{3} \times \frac{22}{7} \times 7\sqrt{5} \times 7\sqrt{5} \times \frac{12}{\sqrt{5}}$ = 12699 - 6045 = 6654 lakh 100. (B) In country 'c' the ratio of export to import is the highest $= 616 \sqrt{5} \text{ cm}^3$

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KЭ Campus K D Campus Pvt. Ltd 2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009 SSC TIER II (MATHS) MOCK TEST - 21 (ANSWER KEY) (C) 11. (D) 21. (A) 41. (C) 51. (A) 61. (B) 71. (B) 81. (C) 1. 31. (A) 91. (C) 2. 12. (B) 22. (D) 32. (B) 42. (C) 52. (C) 62. (D) 72. (B) 82. (A) 92. (D) (B 3. (B) 13. (D) 23. (C) 33. (C) 43. (B) 53. (D) 63. (B) 73. (D) 83. (C) 93. (D) 4. (D) 14. (A) 24. (D) 34. (C) 44. (B) 54. (B) 64. (B) 74. (D) 84. (B) 94. (B) 95. (A) 5. (D) 15. (D) 25. (C) 35. (D) 45. (C) 55. (C) 65. (D) 75. (D) 85. (A) 46. (C) 56. (C) 66. (C) 76. (D) (D) 16. (c) 26. (C) 36. (C) 86. (B) 96. (B) 6. 7. 37. (A) 47. (C) 57. (D) 67. (C) 77. (C) 87. (D) (C) 17. (A) 27. (B) 97. (A) 8. (B) 18. (B) 28. (C) 38. (B) 48. (C) 58. (B) 68. (C) 78. (A) 88. (C) 98. (B) 9. (C) 19. (D) 29. (C) 39. (D) 49. (B) 59. (D) 69. (C) 79. (C) 89. (A) 99. (A) 10. (C) 20. (B) 30. (B) 40. (D) 50. (B) 60. (A) 70. (B) 80. (C) 90. (D) 100.(B) Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003 Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

