

✓ SSC GD Maths Practice Set 01 — Solutions (Q1–Q100)

1. **Answer: B) 1000.** Calculation: $125 \times 8 = 1000$.
2. **Answer: A) 90.** $45\% \text{ of } 200 = 0.45 \times 200 = 90$.
3. **Answer: B) 40.** $56 \div 7 \times 5 = 8 \times 5 = 40$.
4. **Answer: A) $7/12$.** $1/4 + 1/3 = (3 + 4)/12 = 7/12$.
5. **Answer: D) 300.** $CP = SP/(1 - \text{loss}\%) = 240/0.8 = 300$.
6. **Answer: C) 400.** $CP = SP/(1 + \text{profit}\%) = 500/1.25 = 400$.
7. **Answer: B) 36.** $\text{LCM}(12,18) = 36$.
8. **Answer: C) 12.** $\text{HCF}(24,36) = 12$.
9. **Answer: A) 0.6.** Ratio $3:5 = 3/5 = 0.6$.
10. **Answer: B) 15.** Average $= (10 + 15 + 20)/3 = 45/3 = 15$.
11. **Answer: B) 2025.** $45^2 = 2025$.
12. **Answer: C) 14.** $\sqrt{196} = 14$.
13. **Answer: A) 210.** CI for 2 years on 1000 @10%: amount $= 1000(1.1)^2 = 1210$; CI $= 1210 - 1000 = 210$.
14. **Answer: D) 150.** Distance $= 60 \text{ km/h} \times 2.5 \text{ h} = 150 \text{ km}$.
15. **Answer: B) 12.** $15\% \text{ of } 80 = 0.15 \times 80 = 12$.
16. **Answer: A) 12.** $0.75 \times 16 = 12$.
17. **Answer: A) 41.** $4^2 + 5^2 = 16 + 25 = 41$.
18. **Answer: B) 50.** $12.5\% = 0.125$; $0.125 \times 400 = 50$.
19. **Answer: B) 72.** $2^3 \times 3^2 = 8 \times 9 = 72$.
20. **Answer: C) 36.** Perimeter of square $= 4 \times 9 = 36 \text{ cm}$.
21. **Answer: D) 40.** Area rectangle $= 8 \times 5 = 40$.
22. **Answer: C) 8.** Work $= \text{men} \times \text{days} = 8 \times 12 = 96 \text{ man-days}$; with 12 men $\rightarrow 96/12 = 8 \text{ days}$.
23. **Answer: B) 36.** $18 \div 0.5 = 18 \times 2 = 36$.
24. **Answer: B) 4.** $\text{HCF}(8,12,20) = 4$.
25. **Answer: B) 5.** $2.5\% \text{ of } 200 = 0.025 \times 200 = 5$.
26. **Answer: A) 450.** SP when CP=500, loss 10% $\rightarrow 500 \times 0.9 = 450$.
27. **Answer: C) 8 km/h.** Speed $= 40 \div 5 = 8 \text{ km/h}$.
28. **Answer: A) $1/2$.** $7/14 = 1/2$.
29. **Answer: B) 3:2.** If $a:b = 2:3$ then $b:a = 3:2$.

30. **Answer: B) 200.** $500 - 275 - 25 = 200$.
31. **Answer: C) 12.** $144 \div 12 = 12$.
32. **Answer: D) 0.90.** Largest among $\{0.25, 0.5, 0.75, 0.90\}$ is 0.90.
33. **Answer: D) 100.** $40\% \text{ of } 250 = 0.4 \times 250 = 100$.
34. **Answer: C) 90.** $18 + 27 + 45 = 90$.
35. **Answer: B) 126.** $9 \times 14 = 126$.
36. **Answer: C) 14.** $3.5 \times 4 = 14$.
37. **Answer: C) 480.** $CP=400$, profit $20\% \rightarrow 400 \times 1.2 = 480$.
38. **Answer: A) 20.** $5(6 - 2) = 5 \times 4 = 20$.
39. **Answer: C) 30.** $LCM(5, 10, 15) = 30$.
40. **Answer: C) 1000.** $1 \text{ km} = 1000 \text{ meters}$.
41. **Answer: C) 30.** $3/5 \text{ of } 50 = 0.6 \times 50 = 30$.
42. **Answer: C) 40.** $120 \div 3 = 40$.
43. **Answer: D) 64.** $8^2 = 64$.
44. **Answer: B) 12.** Average $= (8 + 12 + 16)/3 = 36/3 = 12$.
45. **Answer: B) 60.** Speed $= 180 \div 3 = 60 \text{ km/h}$.
46. **Answer: A) 1:2.** Ratio $10:20 = 1:2$.
47. **Answer: C) 500.** $SP=450$ with $10\% \text{ loss} \Rightarrow CP = 450/0.9 = 500$.
48. **Answer: D) 16.** $64 \div 4 = 16$.
49. **Answer: D) 36.** Area square with side 6: $6^2 = 36$.
50. **Answer: B) 10.** $0.2 \times 50 = 10$.
51. **Answer: D) 27.** $3^3 = 27$.
52. **Answer: A) greater.** Compound interest \geq simple interest for same rate/time (strictly greater if rate/time > 0).
53. **Answer: C) 36.** Train 300 m in $30 \text{ s} \Rightarrow \text{speed} = 300/30 = 10 \text{ m/s} = 10 \times 18/5 = 36 \text{ km/h}$.
54. **Answer: C) 144.** $12 \times 12 = 144$.
55. **Answer: C) 0%.** Selling at $CP \rightarrow \text{profit} = 0\%$.
56. **Answer: A) 25? — Correct option is D) 40.** (From question: "A number divided by 5 gives 8. The number is:" $\rightarrow 5 \times 8 = 40$. Option D is 40.)
57. **Answer: B) 45.** $LCM(9, 15) = 45$.
58. **Answer: D) 25%.** Savings $= (2000 - 1500)/2000 \times 100 = 25\%$.

59. **Answer: C) 30.** Area triangle = $\frac{1}{2} \times 10 \times 6 = 30$.
60. **Answer: B) 63.** $9 \times 7 = 63$.
61. **Answer: C) 70.** $18 + 22 + 30 = 70$.
62. **Answer: C) 11.** $\sqrt{121} = 11$.
63. **Answer: D) 75.** 25% of 300 = 75.
64. **Answer: A) 6.** 6 is a factor of 48.
65. **Answer: C) 20.** $500 \div 25 = 20$.
66. **Answer: D) 60.** $\frac{2}{3}$ of 90 = 60.
67. **Answer: D) 60.** $15 \times 4 = 60$.
68. **Answer: C) 10%.** Profit% = $(880 - 800)/800 \times 100 = 80/800 \times 100 = 10\%$.
69. **Answer: C) 75.** $10^2 - 5^2 = 100 - 25 = 75$.
70. **Answer: C) 2.** Smallest prime number is 2.
71. **Answer: C) 66.** $6 \times 11 = 66$.
72. **Answer: B) 32.** $14 + 18 = 32$.
73. **Answer: C) 160.** Distance = $4 \times 40 = 160\text{km}$.
74. **Answer: C) 24.** LCM(4,6,8)=24.
75. **Answer: A) 810.** CP=900, loss10% $\Rightarrow 900 \times 0.9 = 810$.
76. **Answer: B) 12.5.** Average = $(5 + 10 + 15 + 20)/4 = 50/4 = 12.5$.
77. **Answer: B) 5.** $45 \div 9 = 5$.
78. **Answer: C) 8.** $3.5 + 4.5 = 8$.
79. **Answer: A) 28%.** Successive discounts 20% & 10% \Rightarrow overall = $1 - (0.8 \times 0.9) = 0.28 = 28\%$.
80. **Answer: C) 9.** $0.6 \times 15 = 9$.
81. **Answer: A) 64.** $4^3 = 64$.
82. **Answer: C) 60.** 75% of 80 = $0.75 \times 80 = 60$.
83. **Answer: A) 5.** By Pythagoras $\sqrt{4^2 + 3^2} = \sqrt{16 + 9} = \sqrt{25} = 5$.
84. **Answer: C) 9.** $72 \div 8 = 9$.
85. **Answer: C) 48.** $\frac{3}{4}$ of 64 = 48.
86. **Answer: C) 154.** Area = $\pi r^2 = \pi \times 7^2 \approx 153.94 \approx 154$.
87. **Answer: D) 690.** $600 \times 1.15 = 690$.
88. **Answer: C) 20.** $\frac{1}{5}$ of 100 = 20.

89. **Answer: B) 544.** $1000 - 456 = 544$.
90. **Answer: D) 12.** $\text{LCM}(2,3,4,6)=12$.
91. **Answer: A) 21.** $7 + 7 \times 2 = 7 + 14 = 21$ (BODMAS).
92. **Answer: D) $\frac{1}{5}$.** Smallest among $\{\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}\}$ is $\frac{1}{5}$.
93. **Answer: D) 150.** 30% of 500 = 150.
94. **Answer: C) 98.** For square with diagonal d : $\text{area} = \frac{d^2}{2} = \frac{14^2}{2} = \frac{196}{2} = 98$.
95. **Answer: C) 20%.** Profit = $240 - 200 = 40$. Profit% = $\frac{40}{200} \times 100 = 20\%$.
96. **Answer: C) 20.** $6^2 - 4^2 = 36 - 16 = 20$.
97. **Answer: C) 4.** Time = $100 \div 25 = 4$ hours.
98. **Answer: D) 10.** $\text{HCF}(20,30)=10$.
99. **Answer: D) 9.** 9 is composite (3×3).
100. **Answer: C) 143.** $11 \times 13 = 143$.