

SSC CHSL Quantitative Aptitude 100 Questions PDF

Q1. Simplify: $(25)^2 - (24)^2 = ?$

- a) 25
- b) 49
- c) 1
- d) 48

Answer: (b) 49

Solution: Using $(a^2 - b^2) = (a - b)(a + b) = (1)(49) = 49$

Q2. A number increased by 20% becomes 72. Find the number.

- a) 50
- b) 55
- c) 60
- d) 65

Answer: (c) 60

Solution: $1.2x = 72 \Rightarrow x = 60$

Q3. The average of 5 numbers is 28. If one number is removed, average becomes 26. Find the number removed.

- a) 35
- b) 36
- c) 38
- d) 40

Answer: (b) 36

Solution: Total = $28 \times 5 = 140$, new total = $26 \times 4 = 104 \Rightarrow$ removed = 36

Q4. Find the HCF of 72 and 108.

- a) 12
- b) 18
- c) 24
- d) 36

Answer: (d) 36

Q5. If 40% of a number is 80, find the number.

- a) 160
- b) 180
- c) 200
- d) 220

Answer: (c) 200

Q6. A man buys a book for ₹400 and sells it at 25% profit. Find SP.

- a) 450
- b) 475
- c) 500
- d) 520

Answer: (c) 500

Q7. If $\sin A = 3/5$, find $\cos A$.

- a) $4/5$
- b) $3/4$

c) $\frac{5}{3}$

d) $\frac{1}{2}$

Answer: (a) $\frac{4}{5}$

Q8. The ratio of two numbers is 3:4 and their sum is 84. Find the numbers.

a) 36, 48

b) 30, 54

c) 42, 56

d) 21, 63

Answer: (a) 36, 48

Q9. Find the simple interest on ₹5000 at 8% per annum for 2 years.

a) 600

b) 700

c) 800

d) 900

Answer: (c) 800

Q10. A trader sells an article at 10% loss. If sold for ₹270 more, he would gain 5%. Find CP.

a) 1800

b) 2000

c) 2200

d) 2400

Answer: (a) 1800

Q11. A train travels 360 km at 90 km/h. Find time taken.

a) 2 hrs

b) 3 hrs

c) 4 hrs

d) 5 hrs

Answer: (c) 4 hrs

Q12. If 12 men can do a work in 10 days, how many men are required to finish it in 8 days?

a) 14

b) 15

c) 12

d) 10

Answer: (b) 15

Solution: $M_1D_1 = M_2D_2 \Rightarrow 12 \times 10 = M \times 8 \Rightarrow M = 15$

Q13. Find the area of a triangle with base 10 cm and height 8 cm.

a) 30

b) 35

c) 40

d) 45

Answer: (c) 40

Q14. A person covers a distance of 120 km in 3 hours. Find his speed.

a) 30 km/h

b) 40 km/h

c) 50 km/h

d) 60 km/h

Answer: (b) 40

Q15. The sum of digits of a two-digit number is 9. If digits are reversed, number increases by 27. Find number.

- a) 36
- b) 45
- c) 54
- d) 63

Answer: (a) 36

Q16. Simplify: $(3/4) + (7/8) - (5/16)$

- a) $15/16$
- b) $17/16$
- c) $13/16$
- d) $19/16$

Answer: (b) $17/16$

Q17. The average age of 3 friends is 20. If one new friend joins, average becomes 22. Find new friend's age.

- a) 26
- b) 28
- c) 30
- d) 32

Answer: (d) 32

Q18. A sum becomes ₹1200 in 2 years and ₹1320 in 3 years at simple interest. Find principal.

- a) 1000
- b) 1100
- c) 1200
- d) 900

Answer: (a) 1000

Q19. A man spends 40% of his income on rent, 30% on food, and saves ₹1800. Find his income.

- a) 3000
- b) 4000
- c) 5000
- d) 6000

Answer: (d) 6000

Q20. If the radius of a circle is 7 cm, find its area.

- a) 144
- b) 154
- c) 178
- d) 200

Answer: (b) 154

Q21. A sum of money doubles itself in 8 years at simple interest. Find rate.

- a) 10%
- b) 12.5%
- c) 15%
- d) 20%

Answer: (b) 12.5%

Q22. A can do a work in 15 days, B in 20 days. Together they will complete in –

- a) 8 days
- b) 9 days
- c) 10 days
- d) 12 days

Answer: (c) 10 days

Q23. The perimeter of a square is 32 cm. Find its area.

- a) 64
- b) 100
- c) 128
- d) 256

Answer: (a) 64

Q24. If $x = 5$ and $y = 3$, find value of $(x^2 + y^2 + 2xy)$.

- a) 49
- b) 64
- c) 81
- d) 100

Answer: (a) 64

Q25. Find compound interest on ₹8000 at 10% per annum for 2 years.

- a) 1600
- b) 1680
- c) 1720
- d) 1760

Answer: (b) 1680

Q26. A car travels 150 km in 3 hours. Find speed in m/s.

- a) 13.8
- b) 14.5
- c) 15
- d) 16.6

Answer: (a) 13.8

Q27. Find the missing term in the series: 3, 10, 24, 52, 108, ?

- a) 216
- b) 220
- c) 224
- d) 230

Answer: (b) 220

Q28. The average of 10 numbers is 20. If one number 40 is added, new average is –

- a) 21
- b) 22
- c) 23
- d) 24

Answer: (b) 22

Q29. If 6 workers can complete a task in 15 days, in how many days will 10 workers do it?

- a) 8
- b) 9
- c) 10
- d) 12

Answer: (b) 9

Q30. If 12% of $x = 72$, find x .

- a) 500
- b) 550
- c) 600
- d) 650

Answer: (c) 600

Q31. A man bought an article for ₹1500 and sold it for ₹1800. Find profit %.

- a) 15%
- b) 18%
- c) 20%
- d) 25%

Answer: (c) 20%

Q32. Find the perimeter of a rectangle whose length = 12 cm and breadth = 8 cm.

- a) 30
- b) 36
- c) 40
- d) 44

Answer: (c) 40

Q33. If $\tan A = 1$, then $A = ?$

- a) 30°
- b) 45°
- c) 60°
- d) 90°

Answer: (b) 45°

Q34. A sum of ₹5000 amounts to ₹6000 in 2 years under CI. Find rate.

- a) 8%
- b) 9%
- c) 10%
- d) 12%

Answer: (d) 9.5% approx

Q35. If radius of sphere is 3 cm, find its volume.

- a) 108π
- b) 36π
- c) 27π
- d) 45π

Answer: (a) 108π

Q36. 20% of a number is 60. Find the number.

- a) 200
- b) 250
- c) 300
- d) 350

Answer: (c) 300

Q37. Find the mean of 4, 6, 8, 10, 12.

- a) 8
- b) 9
- c) 10
- d) 11

Answer: (b) 8

Q38. A bag contains 3 red, 5 green, and 2 blue balls. Probability of drawing a green ball?

- a) $1/2$
- b) $2/5$
- c) $1/5$
- d) $1/4$

Answer: (b) $1/5$

Q39. A man walks 5 km at 5 km/h and 10 km at 10 km/h. Find average speed.

- a) 7.5 km/h

- b) 6.66 km/h
- c) 8 km/h
- d) 9 km/h

Answer: (b) 6.66 km/h

Q40. If CP = ₹240, SP = ₹300, profit % = ?

- a) 20%
- b) 22%
- c) 24%
- d) 25%

Answer: (d) 25%

Q41. If 3 pencils cost ₹15, what will 7 pencils cost?

- a) ₹30
- b) ₹35
- c) ₹40
- d) ₹45

Answer: (b) ₹35

Q42. If A:B = 2:3 and B:C = 4:5, find A:C.

- a) 8:15
- b) 6:9
- c) 4:5
- d) 2:5

Answer: (a) 8:15

Q43. Find the mode of 3, 5, 5, 7, 8, 5, 9.

- a) 5
- b) 7
- c) 8
- d) 9

Answer: (a) 5

Q44. What is 15% of 240?

- a) 30
- b) 32
- c) 34
- d) 36

Answer: (d) 36

Q45. If radius of cylinder = 7 cm and height = 10 cm, find volume.

- a) 1500π
- b) 490π
- c) 700π
- d) 770π

Answer: (b) 490π

Q46. A can do a work in 10 days, B in 20 days. Together they can complete it in –

- a) 6.6 days
- b) 7 days
- c) 8 days
- d) 9 days

Answer: (b) 6.67 days

Q47. Simplify: $\sqrt{144} + \sqrt{49} = ?$

- a) 17
- b) 18
- c) 19

d) 20

Answer: (a) 17

Q48. If $x\%$ of 200 = 60, find x .

a) 20%

b) 25%

c) 30%

d) 35%

Answer: (c) 30%

Q49. Find the average of first 10 natural numbers.

a) 4.5

b) 5

c) 5.5

d) 6

Answer: (c) 5.5

Q50. Find CI on ₹10000 at 10% per annum for 2 years.

a) 2000

b) 2100

c) 2200

d) 2300

Answer: (b) 2100

Q51. If $a = 5$ and $b = 2$, find value of $(a^3 - b^3)/(a - b)$.

a) 25

b) 27

c) 29

d) 31

Answer: (c) 39

Solution: $(a^3 - b^3)/(a - b) = a^2 + ab + b^2 = 25 + 10 + 4 = 39$

Q52. A sum of ₹1200 gives ₹144 as SI in 2 years. Find rate.

a) 5%

b) 6%

c) 7%

d) 8%

Answer: (b) 6%

Solution: $(144 \times 100)/(1200 \times 2) = 6\%$

Q53. A man can row 6 km/h in still water. If the stream's speed is 2 km/h, find speed upstream.

a) 4 km/h

b) 6 km/h

c) 8 km/h

d) 3 km/h

Answer: (a) 4 km/h

Q54. If 12 men can build a wall in 10 days, how many days will 8 men take?

a) 12

b) 13

c) 14

d) 15

Answer: (d) 15

Q55. The difference between compound and simple interest on ₹5000 for 2 years at 10% p.a. is –

a) ₹40

- b) ₹50
- c) ₹55
- d) ₹60

Answer: (a) ₹50

Q56. What is the value of $9^2 + 3^2 - 6^2$?

- a) 36
- b) 42
- c) 45
- d) 54

Answer: (c) 45

Q57. The sum of three consecutive odd numbers is 51. Find the numbers.

- a) 15,17,19
- b) 13,15,17
- c) 11,13,15
- d) 17,19,21

Answer: (a) 15,17,19

Q58. Find the simple interest on ₹4000 at 5% for 4 years.

- a) ₹800
- b) ₹600
- c) ₹700
- d) ₹750

Answer: (a) ₹800

Q59. A shopkeeper marks goods 25% above cost and allows 10% discount. Find gain %.

- a) 12.5%
- b) 15%
- c) 20%
- d) 22.5%

Answer: (a) 12.5%

Q60. A sum of ₹5000 becomes ₹8000 in 4 years at SI. Find rate.

- a) 10%
- b) 12%
- c) 15%
- d) 20%

Answer: (d) 15%

Q61. The perimeter of rectangle is 40 m and length is 12 m. Find breadth.

- a) 8 m
- b) 10 m
- c) 12 m
- d) 14 m

Answer: (a) 8 m

Q62. If $5x = 20$, find x^2 .

- a) 4
- b) 8
- c) 12
- d) 16

Answer: (d) 16

Q63. Find value of $\sqrt{121} + \sqrt{64}$.

- a) 15
- b) 16

c) 17

d) 18

Answer: (c) 17

Q64. A train 120 m long crosses a pole in 10 seconds. Find its speed in km/h.

a) 36

b) 43.2

c) 48

d) 50

Answer: (b) 43.2

Q65. The average of first 5 odd numbers is –

a) 3

b) 5

c) 7

d) 9

Answer: (b) 5

Q66. If $(x + 1/x) = 3$, find $(x^2 + 1/x^2)$.

a) 7

b) 8

c) 9

d) 10

Answer: (a) 7

Q67. The diameter of a circle is 14 cm. Find its area.

a) 144

b) 145

c) 154

d) 160

Answer: (c) 154

Q68. Find simple interest on ₹9000 at 12% for 3 years.

a) ₹3000

b) ₹3200

c) ₹3240

d) ₹3500

Answer: (c) ₹3240

Q69. If 20% of A = 30% of B, find A:B.

a) 3:2

b) 2:3

c) 1:2

d) 2:1

Answer: (b) 3:2

Q70. The average of 4 and 12 is –

a) 6

b) 7

c) 8

d) 9

Answer: (c) 8

Q71. If side of cube = 3 cm, find total surface area.

a) 36

b) 54

c) 72

d) 81

Answer: (b) 54

Q72. If $x = 2$, find value of $(2x^3 - x^2 + 5x - 3)$.

- a) 20
- b) 21
- c) 22
- d) 23

Answer: (c) 22

Q73. Find the area of a square whose diagonal = 10 cm.

- a) 40
- b) 45
- c) 50
- d) 60

Answer: (c) 50

Q74. A man covers 60 km at 12 km/h. Find time.

- a) 4 hrs
- b) 5 hrs
- c) 6 hrs
- d) 7 hrs

Answer: (c) 5 hrs

Q75. If CP = ₹160, SP = ₹200, find profit %.

- a) 20%
- b) 22%
- c) 24%
- d) 25%

Answer: (d) 25%

Q76. A can finish a work in 12 days and B in 16 days. Together they take –

- a) 6.8 days
- b) 6.9 days
- c) 7 days
- d) 7.2 days

Answer: (c) 7 days

Q77. If $5x = 10y$, find $x:y$.

- a) 1:2
- b) 2:1
- c) 3:2
- d) 2:3

Answer: (b) 2:1

Q78. Simplify: $(15\% \text{ of } 240) + (25\% \text{ of } 160)$.

- a) 70
- b) 80
- c) 90
- d) 100

Answer: (b) 80

Q79. Find the sum of first 20 natural numbers.

- a) 190
- b) 200
- c) 210
- d) 220

Answer: (c) 210

Q80. A sum triples itself in 10 years at SI. Find rate.

- a) 10%
- b) 15%
- c) 20%
- d) 25%

Answer: (b) 20% (Because 200% in 10 yrs $\Rightarrow$ 20% per year)

Q81. Find value of $(5/8) \div (10/16)$.

- a) 1
- b) 0.5
- c) 0.8
- d) 2

Answer: (a) 1

Q82. If perimeter of equilateral triangle = 36 cm, find its height.

- a) $8\sqrt{3}$
- b) $9\sqrt{3}$
- c) $10\sqrt{3}$
- d) $12\sqrt{3}$

Answer: (b) $9\sqrt{3}$

Q83. If $\sin \theta = 4/5$, then $\tan \theta = ?$

- a) $3/4$
- b) $4/3$
- c) $5/3$
- d) 1

Answer: (b) $4/3$

Q84. A can do a job in 15 days, B can do it in 10 days. Together they can complete it in –

- a) 6 days
- b) 8 days
- c) 9 days
- d) 12 days

Answer: (a) 6 days

Q85. If 5 men can complete work in 20 days, then 10 men can do in –

- a) 8
- b) 9
- c) 10
- d) 12

Answer: (c) 10

Q86. If 10% of A = 20% of B, find A:B.

- a) 1:2
- b) 2:1
- c) 3:2
- d) 5:2

Answer: (b) 2:1

Q87. Simplify: $(0.25 \times 0.4) \div 0.1 = ?$

- a) 0.8
- b) 0.9
- c) 1
- d) 1.2

Answer: (a) 1

Q88. Find perimeter of semicircle with radius 7 cm.

- a) 36 cm

- b) 37 cm
- c) 38 cm
- d) 39 cm

Answer: (b) 37 cm ($\pi r + 2r = 22/7 \times 7 + 14 = 22 + 14 = 36 \approx 37$)

Q89. If cost of 12 pens = ₹144, find cost of 8 pens.

- a) ₹90
- b) ₹92
- c) ₹94
- d) ₹96

Answer: (d) ₹96

Q90. A and B's ages are in ratio 5:3. If sum is 40, find A's age.

- a) 20
- b) 25
- c) 30
- d) 35

Answer: (b) 25

Q91. If 8 men can do a work in 12 days, in how many days will 6 men complete it?

- a) 15
- b) 16
- c) 18
- d) 20

Answer: (c) 16

Q92. The area of a rectangle is 120 m² and breadth is 10 m. Find length.

- a) 10
- b) 11
- c) 12
- d) 15

Answer: (d) 12

Q93. If CP = ₹500, SP = ₹600, profit % = ?

- a) 10
- b) 15
- c) 20
- d) 25

Answer: (d) 20

Q94. A man spends 1/3 of his salary on rent, 1/5 on food, and saves ₹6000. Find salary.

- a) 9000
- b) 12000
- c) 15000
- d) 18000

Answer: (c) 15000

Q95. Find median of 2, 4, 6, 8, 10.

- a) 4
- b) 6
- c) 8
- d) 10

Answer: (b) 6

Q96. A car covers 200 km in 4 hours. Find speed in m/s.

- a) 10
- b) 12

c) 13.8

d) 15

Answer: (c) 13.8

Q97. Find value of $(3^2 + 4^2)^{1/2}$.

a) 4

b) 5

c) 6

d) 7

Answer: (b) 5

Q98. If perimeter of circle is 44 cm, find radius.

a) 6

b) 7

c) 8

d) 9

Answer: (b) 7

Q99. If $8x = 64$, find value of x^3 .

a) 64

b) 125

c) 216

d) 512

Answer: (d) 512

Q100. A train crosses a bridge 250 m long in 30 seconds. Speed = 60 km/h. Find train length.

a) 200 m

b) 250 m

c) 300 m

d) 350 m

Answer: (a) 250 m