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Previous Year's SSC CHSL Quantitative Aptitude Questions Asked

1. LCM of two numbers is 2900% more than their HCF and sum of LCM and HCF of these two numbers is 310. If one of the number is 20, find the other number? Ans. 150.
2. In 40 L mixture of milk and water, the ratio of milk to water is 7:1. In order to make the ratio of milk and water 3:1, the quantity of water (in liters) that should be added to the mixture will be: Ans. 20/3.
3. Three persons walk from place A to place B. their speed are in the ratios 4:3:5. The ratio of the times taken by them to reach B will be: Ans. 15:20:12.
4. Average age of a woman and her daughter is 21 yr. If the ratio of their ages is 5:1, respectively, what will be the ratio of their ages after 5 years? Ans. 10:3.
5. Complete the following series.
418, 208, 102, 48, ?, 5
6. $97 : 63 :: 76 : ?$
7. $\sin 30^\circ + \cos 45^\circ = x$, find x ?
8. If 25 quintal of wheat is sold for INR 1825 and 27% of wheat gets spoiled in transportation. To make 20% gain, at how much rate the seller should sell it?
9. Find the radius of circle whose arc is 33 cm and its measures is 90 degree on the center.
10. A and B can do a work in 6 and 12 days. Then in how many days they together can do 25% work?
11. What number should come in place of the question mark?
4, 8, 16, 32, 64, ?
12. The sum of the ages of 10 children born at the intervals of 3 years each is 80 years. What is the age of the youngest child?
13. A and B invest in a business in the ratio 5 : 6. If 5% of the total profit goes to charity and A's share is Rs. 855, what is the total profit?

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14. A family consists of two parents, two siblings and two grandparents. The average age of the grandparents is 70 years, that of the parents is 38 years and that of the grandchildren is 8 years. What is the average age of the family?
15. An amount is invested for two years at an interest @16%. The difference in CI & SI amounts to 320. Find the Principal amount.
16. A seller sold almonds for Rs. 1250 at a loss of 7%. If he sells at Rs. 1350, what will be the percentage of profit or loss?
17. A got 20 more marks than B & 55% of the marks obtained by both A & B . Find marks attained by A and B.
18. 12 sided polygon has 30 edges. How many vertices are present in this polygon?
19. The side opposite to 60 degrees in a triangle is given to be 6. What is the side opposite to the right angle?
20. If in 2015 interest rate was 6% and inflation rate was 1.5% then what was the actual interest rate?
21. $\tan(-240) = ?$ -2.9
22. $\tan(150) = ?$ -1.02
23. $2\sin A \cos B = ?$
24. Find the total surface area of hollow cylinder whose outer and inner radius are 7 cm and 6 cm respectively and whose height is 22 cm. 1880 sq. cm
25. A man sold a piece of land for Rs. 51 lakhs and bore some loss. If he had sold the same land for Rs. 60 lakh, his profit would be 8 times the loss he incurred. Find the Cost Price of the land? Rs. 52 lakh
26. At 12% rate of interest, difference of Simple Interest and Compound Interest for 2 years is 72. Find the principal sum.
27. A does 75% work in 50 days after which B joins and they both finish the rest of the work in 10 days. How many days will B take to do the work alone?
28. Compound Interest on a sum at the end of 2 year and at the end of three years is given, find rate of interest.
29. Discount percent on an item is given and profit percentage is given. Find out the Marked Price.
30. What is the value of $\tan 3A$ if $\tan A$ value given.



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31. If $\cot^2 A - \cos^2 A = m$, m will be equal to?
32. Coordinates of three points are given (a, b) , (c, d) , (e, f) . You have to find the centroid of the triangle formed by these as vertices.
33. Given, the values of xy and $x^2 + y^2$. Find the value of $x + y$.
34. A coordinate (x, y) is given. Which line will it lie on from the given options?
35. A is twice as efficient as B. If A takes 15 days to complete a work, how much time will they take to complete the work by working together? 10 days
36. Ratio and average of the ages of a father and son is given. Find the age of the father.
37. Convert a speed given in kmph to m/s.
38. Radius of a Hemisphere is given, find the value of its Volume.
39. A piece of work can be done by P in 12 days while Q can do it in 24 days. If P & Q work together then in how many days 50% of the work can be completed? 4 days
40. Sides of a rhombus are 10 cm each and its one diagonal is half of the other. Find area of the rhombus.
41. Total surface area of a sphere is given, find radius.
42. $(\sec A - \cos A)(\operatorname{cosec} A - \sin A)(\tan A + \cot A)$
43. What is the value of $\cot 330^\circ$. $-\sqrt{3}$
44. Solve for x : $x^2 - 7x + 10 = 0$ Ans: 5, 2
45. The ratio between the perimeter and the breadth of a rectangle is $x:y$. If area is "A" sq. cm, find the length of the rectangle.
46. A sum of Rs. 25,000 amounts to Rs. 30,000 in 4 years at a certain rate of simple interest. What is this rate of interest? 5%
47. In one hour, a boat goes at 10 km/hr along the stream and 5 km/hr against the stream. Find its speed in still water. 7.5 km/hr
48. $\cot A + \cot B = ?$
49. $\cos 225^\circ = ?$ $\cos (180+45) = -\cos 45 = -1/\sqrt{2}$
50. Coordinates for the centroid and two vertices are given, find the third vertex.
51. Marked price is Rs. 2000, Selling price is Rs. 1600. Find discount %? Ans: 20%
52. Selling at Rs. X yields a loss of $a\%$. What will happen if you sell it for Rs. Y?





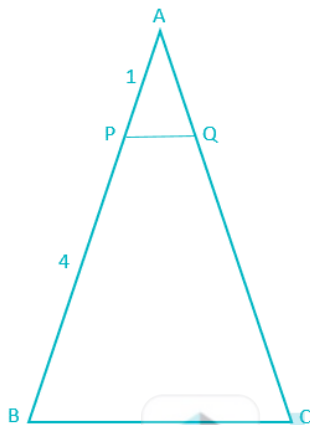
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53. $\operatorname{Cosec}^{-1} 230 = ?$ 1.305
54. $\operatorname{Cosec} 7\pi/6 = ?$ Ans: -2
55. $\tan(a/2) = ?$
56. A person lent his friend Ram a certain amount of money for 2 years and friend Sham the same amount of money for 3 years. If the total simple interest earned is Rs. 1442, then what is rate of interest?
57. Area of triangle APQ=4. If PQ parallel to BC, then find the area of PQCB? 96



58. 12 men construct 1.5 km of road in 7 days. 28 men will construct 12 km of roads in? – 24 Days
59. Kabir buys an article with 25% discount on its marked price. He makes a profit of 10% by selling it at Rs. 660. The marked price is? – Rs. 800
60. A shopkeeper marks an article at Rs. x , which gives a profit of 25%. Find Cost price.
61. On the eve of Gandhi Jayanti, Gandhi Ashram declared a 25% discount on silk. If selling price of a silk saree is Rs. 525, what is its marked price? – Rs. 700
62. 1000 boys and 800 girls took an exam. 60% of the boys and 50% of the girls passed. Find the percent of the candidates who failed? 44.44%
63. If A exceeds B by 40%, and B is less than C by 20%, then A:C is: 1.12
64. Price of sugar rises by 20%. By how much percent should the consumption of sugar be reduced so that the overall expenditure does not change? 50/3%
65. Solve for x : $(4x - 3) - (2x + 1) = 4$. Ans: $x=4$
66. Solve for x : $\sec^2\theta - \operatorname{cosec}^2\theta = x$ when the value of θ given.
67. $\tan A \cdot \tan B = ?$ (Direct formula)



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68. What is the value of $\operatorname{cosec} 120^\circ$? $2/\sqrt{3}$
69. The distance between a policeman and a thief is known to be 350 m. The speed of the policeman is 7 kmph and that of the thief is 5 kmph. How much distance will the thief cover before the policeman arrests him? 52.5 mins
70. If the average of 29 consecutive even integers is 60, then what is the largest among them? 88
71. A can do 75% of the work in 25 days. The remaining work is done by A and B together in 5 days. In how many days can B alone do the whole work? 50 days
72. If 120 is 20% of a number, then 120% of that number will be: 720
73. Given that 8% of x is the same as 4% of y, then 20% of x is the same as: 10% of y
74. If x is less than y by 25% then y exceeds x by: 33.3%
75. What is value of $\cos 3A$? $4 \cos^3 A - 3 \cos A$
76. HCF of 2 given numbers
77. $\sec A - 1 / \sec A + 1 = ?$
78. $\tan(3\pi/6) = ?$ ∞
79. A can do a work in 10 days and B in 20 days. They worked together in 5 days. How much work is remaining? $1/4$ th
80. One direct question related to converting speed from kmph to m/s.
81. The ratio of selected and unselected is given as 3:1. If 40 less had been selected and 80 more had applied, the ratio would have been 2:3. What is the total number of candidates applied?
82. If the simple interest for 2 years is Rs. 1400 and compound interest for 2 years is Rs. 1440. What is the rate of interest?
83. If the average of 7 items is X, average of first 4 items is Y, average of last 4 items is Z. What is the value of 4th item?
84. $[(1 + \tan^2 A) \times \cot A] / \operatorname{cosec}^2 A = ?$
85. $\cos 3A = ?$
86. $\tan(3\pi/6) = ?$
87. Simple and compound interest for 2 years is given for 2 years. Find rate of interest.





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88. Total surface area of a cylinder and its height given, find radius.
89. If $2x + 20 = 40$, $4x - 7 = ?$
90. HCF of two numbers was asked.
91. Total variable cost and total fixed cost is given. If total number of units are 2500, total cost is?
92. One question based on converting kmph to m/s.
93. What number should be subtracted from both terms of the ratio 15 : 19 in order to make it 3 : 4? 3
94. If $p : q = r : s = t : u = 2 : 3$, then $(mp + nr + ot) : (mq + ns + ou)$ is equal to 2:3
95. If $a : b = c : d = e : f = 1 : 2$, then $(pa + qc + re) : (pb + qd + rf)$ is equal to 1:2
96. $\sin 330^\circ = ?$ Ans. $-1/2$.
97. $\sin A - \sin B = ?$
98. If $1/(\tan A + \cot A) = x$, find x .
99. $x - y = 11$ and $xy = 24$, $x^2 + y^2 = ?$
100. Marked price and selling price is given, calculate discount percentage.
101. In which of the following, at least 2 pairs of consecutive angles are equal? Ans. Isosceles Trapezium.
102. Data Interpretation question based on number of girls and boys in Engineering and Medical college?
103. The H.C.F. of two numbers is 96 and their L.C.M. is 1296. If one of the numbers is 864, the other is?
104. If the sum of the interior angles of a regular polygon is 1080° , then what is the number of sides in this polygon?
105. The perimeter of the triangular base of a right prism is 15 cm and radius of the incircle of the triangular base?
106. $\cos 240 = ?$ -0.5
107. What are the co-ordinates of the mirror image of $(-2, 5)$ on the X-axis?
108. $1 + \sin A / 1 - \sin A = ?$
109. A good is marked down by 25%. By what price to now mark up so that original price is retained?
110. $\frac{1}{\sqrt{1 + \tan^2 x}} = ?$ Ans: $\cos x$



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111. 7, 10, 8, 11, 9, 12, ?
112. How much time will it take for an amount of Rs. 5000 to yield Rs. 1000 as interest at 5% per annum of simple interest?
113. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?
114. What is the least number that must be added to 1056, so that the sum is completely divisible by 23?
115. Mensuration based question on trapezium
116. In which quadrilateral are diagonals not necessarily perpendicular to each other? Rectangle
117. 2-3 Geometry based questions on Circle
118. Cuboid sides given, what is the total surface area?
119. Six sides of an octagon were given. One more piece of information given. What is perimeter?
120. Trigonometry questions were all equations were x had to be found out, given that the expression = x .
121. A completes a work in 20 days. B completes the same work in 10 days. With C they finish it in 5 days. How much time will C take to finish the work alone?
122. Algebra question based on linear equation.
123. Time Speed Distance question on Police & Thief.
124. GDP, Imports, Exports given. Calculate a certain figure.
125. Two bicycles start within an interval of 10 mins each going at 6kmph. What the speed of the woman coming from the opposite side if she crosses the second bicycle 8 minutes after the first?
126. A vehicle covers a certain distance at speed 30 kmph. It covers a further equal distance at 45 kmph. What is its average speed over the whole journey? 36 kmph
127. $\sec 225 = ? -\sqrt{2}$
128. A can complete a work in 30 days. A's efficiency is 50% more than B. In how many days can A and B together complete the work?





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129. A can complete a work in 26 days. B's efficiency is 100% more than A. In how many days can A and B together complete the work?
130. A vehicle covers a certain distance at speed 45 kmph. It covers a further equal distance at 60 kmph. What is its average speed over the whole journey?
131. Simplification question based on reduction of numerator and denominator of an expression (both multiples of 13).
132. A line whose y intercept is given, and one more fact given. Which line is possible?
133. The average of thirteen numbers as well as the average of the first seven numbers and the average of last seven numbers are given. Find the 7th number.
134. Simple interest of 3rd year on a sum given. And the compound interest of 2nd year given. Rate of interest =?
135. Cylinder whose radius is 5 cm, and height is 8 cm, is given. A right circular cone with radius 4 cm and height 7 cm is placed inside the cylinder. Find the volume of remaining space.
136. Trigonometry questions were all equations were x had to be found out, given that the expression = x.
137. $\tan a / \sec a = x$. Find x.
138. A triangle is given whose angles are in the ratio 1:2:3. What is the value of the biggest angle? 90
139. Multiplication of the lengths of diagonals of which of the following figures will yield its area? Kite
140. Pie chart question – 6 lakh rupees to be divided among A, B, C, D... A gave C Rs. 15000. New percentage of C's share?
141. 36 is 4.8% of what? 750.
142. An arithmetic progression's first and last numbers are given. If the sum of the series is – 140, find the number of terms?
143. Find the sum of all the prime numbers between 58 and 62. 120
144. If $A - B = 6$ and $A^2 + B^2 = 44$, find $A \times B$.



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145. Average weight of 3 girls is given, average weight of first 2 girls is given and average weight of last 2 girls is given, find the weight of second girl.
146. A certain sum incurs a simple interest of 8100 Rs. in 9 years at 6% rate of interest, find the principal amount.
147. Profit and Loss question was based on Discounts.
148. A is double efficient as compared to B. How much time will A and B take to finish a work?
149. Two persons start moving towards each other at a speed 6 and 11 kmph. If they meet after 42 minutes, find their initial distance.
150. Length and breadth of a rectangular pond is given and question asked on it.
151. Three vertices of a triangle is given find its centroid.
152. Find the value of $\sqrt{[(1 - \sin A)/(1 + \sin A)]}$.
153. Find the value of $\cot 135^\circ$.
154. If $(1 - \sin A)/\cos A = x$, find x .
155. Given, $4x - 4 = 3x + 8$, find the value of $(x + 1)^3$
156. What is the value of $\sin 300^\circ$? $-(\sqrt{3}/2)$.
157. If $x + y = 89$ and $x^2 + y^2 = 8$, find xy ?
158. Find marked price of an item if the selling price is 2125 which is 85% of the marked price.
159. Time taken by A and B individually in completing a work is given, how many days will they take if they work together?
160. Sum of the ages of Ram and Shyam is 49. If Shyam's age is 9 more than the twice of Ram's age, find Ram's age.
161. One problem on Compound Interest.
162. Profit percentage on an item is given when it is sold at 20% discount, what will be the profit if the discount is 18%?
163. $\sqrt{(1 - \cos^2 x)} = x$, find x .
164. $\cos x/(1 - \sin x) = x$, find x .
165. $\cos^2 \theta/(1 + \sin \theta) = ?$
166. What is the value of $\cot 240^\circ$?





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167. Marked price of an item is given. 2 items are sold at 16% discount and 5 items are sold at 44% discount. What will be the maximum effective discount on the purchase of total 9 items?
168. $\cos(-300^\circ) = ?$ Ans. $1/2$.
169. Find the slope of the equation, $4x - 8y = 3$. Ans. $1/2$.
170. A invests a sum (value given) for 14 years and B invests another sum (value given) for 15 years at the same rate of interest. If their total interest is 94843, what is the rate of interest? – $9484300/(14A+15B)$
171. $\sqrt{(2\cos^2 A - 1)} = x$, find x.
172. A man built a fence around his plot. He used 50 fence poles on each side of the square. How many poles did he need altogether? – 196
173. $\cot 30^\circ - \cot 45^\circ = ?$
174. If $\tan 2A = x$, find x.
175. A dishonest milkman buys milk at Rs. 25 per litre and adds $1/5$ th water to it and then sells it at Rs. 29 per litre. What is his percentage profit? – 45%
176. Convert 106 to binary? – 01101010.
177. Volume, length and breadth of a cuboid is given, find surface area. – Divide volume by (length*breadth), find height, then surface area will be $lb+bh+lh$
178. A completed 30% of a work in 30 days. After that B joined and then both completed the work in some days (value given). What is the work done by B in one day? – $(\text{value given})/100 + (\text{value given})/x = 7/10$
179. $\sin 330^\circ = ?$ Ans. $-1/2$.
180. $\sin A/(1 + \cos A) = ?$
181. If a line passing through (5, a) and (4, 3) is perpendicular to the line $x - 6y = 8$, find the value of a? – $a = -3$
182. An article costs 300. A person gets 24% discount when he buys 2 articles and 38% when he buys 5 articles, find the effective discount if he buys 7 articles. – 34%
183. A person covers 252 km in 2.5 hrs. Find the speed in meter per second. – 28 m/s
184. $1/(1+\cot^2 A) = ?$



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185. Five bells begin to toll together and toll respectively at intervals of 6, 5, 7, 10 and 12 seconds. How many times will they toll together in one hour excluding the one at the start? – 8 times
186. $1397 \times 1397 = ?$ – 1951609
187. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6 years and that for 9 years? – 2:3
188. $(\sec a / \sec^2 a - 1) + (\sec a / \sec^2 a + 1) = ?$
189. On selling 21 Nike shoes a man gains equals to the selling price of 5 Nike shoes. Find his gain percent. – 31.25
190. Find the slope of the line passing through (3, 4) and (7, 6). – 1/2
191. $\cot 2A = x$, find x .
192. Data Interpretation based on Tables asking profit/loss.
193. A quadratic equation is given, find its real roots.
194. $\sec 300^\circ = ?$. – 2
195. If radius of a circle is increased by 30%, its area increases by? – 69%
196. In a triangle ABC, AD is the median to the side BC. If AD = 7 cm and BC = 14, find $\angle A$. – 90 degree
197. $\sec(\theta) / \sqrt{1 - \sec^2(\theta)} = ?$
198. $\cos(-225^\circ) = ?$ Ans. $-1/\sqrt{2}$.
199. Transform 1206 km/hr into m/s.
200. $\sqrt{1 + \cot^2 A} / \cot A = ?$
201. If $x - y = -5$ and $x + y = 16$, find the value of $x^2 + y^2$.
202. A line segment AB is given. Co-ordinates of point A and midpoint of A and B are given, find the co-ordinate of point B.
203. If slope of a line is given and its intercept length on y axis is given, find the equation of line?
204. $\tan(4\pi/3) = ?$
205. $\sec^2 A \times \operatorname{cosec}^2 A = ?$
206. $13x^2 = 17^2 - 8^2$, find x .
207. One mensuration question based on cylinder.





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208. Coordinates of a point dividing given line segment AB (equation given) in the ratio 3 : 2 is?
209. Arithmetic series: $-3x+p$, $x+h$, $5x+q$. Find the value of p and q .
210. Convert 1206 kmph to m/s. Ans. 33.5 m/s.
211. A man can finish a work in 64 days. If he rests after 16 days, what percent work is remaining?
212. $\tan^2 A \sin^2 A = ?$
213. A can do a work in 45 days. B is 50% more efficient than A. How many days will they both take together? – 18 days
214. $\cot 11\pi/6 = -\sqrt{3}$
215. Slope was given $4/3$ and intercepts $-7/2$. Find line equation.
216. Third proportion of 12 and 48 is? – 192
217. $2\cos(c+d/2) \sin(c-d)/2 = ?$, $-\sin C - \sin D$
218. Convert 0.363636 into fraction – $4/11$
219. One triangle is given ABC. AD is perpendicular to BC and $AD = 8$, $BC = 16$. Find the angle of CAB.
220. $3\cos A = ?$
221. $\cos A / 1 - \sin A = ?$
222. Out of 16 tonne wheat, 17% is sold on profit. The left 27% is also sold at profit. If the net profit is 21% then at what profit was 27% wheat sold?
223. Coordinate – easy
224. 4 DI (2 easy, 2 moderate)
225. Out of 3 numbers, the average of 1st = $3/9$ of sum of 2nd and 3rd number. What is the first number?
226. $\cot 4\pi/3 = ? - 1/\sqrt{3}$
227. $(7-15x)-(6x-7) = ? 14$
228. 1, 6.21, 66...? = 201
229. Find relative rate of 22% for 1 year (half yearly) = 21%
230. $\cot^2 A \cos^2 2A =$
231. Height and Volume given of cylinder, find radius.



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232. A zoo charges Rs 800 for an adult's ticket and Rs 200 child's ticket. However, with two adults, a child can enter the zoo for free. How much profit would the zoo get if 20 adults and 8 children visit the zoo?
233. $\sin^{-1} \frac{1}{2}$
2. $\sec a - \tan a = x$ then $x = ?$
234. The first number among a group of three numbers is twice the second number and thrice the third number. Average of these 3 numbers is 517. Find the difference between the first and last numbers. Ans: 564
235. $\cos 135^\circ = ?$
236. $\frac{\sin A \cdot \tan A}{1 - \cos A} = ?$ $1 + \frac{1}{\cos A}$
237. If $1 - \sin^2 A = x$, then $x = ? \cos^2 A$
238. What will be the reflection of the point (4, -5) about the y-axis? (-4, -5)
239. Instead of multiplying by $\frac{7}{6}$, a quantity was multiplied by $\frac{6}{7}$. What is the difference percentage in the two quantities? 26.5%
240. $x + y = 12$, $x^2 + y^2 = 94$ then $xy = ?$ 25
241. If the angles of the quadrilateral are given in the ratio, 1:2:4:5. Find the greatest angle. 150
242. In which type of a quadrilateral are the opposite angles supplementary? Parallelogram
243. Mahadev is twice as efficient as Sahay. Alone, Sahay can finish a work in 21 days. In how many days can they finish the same work if they work together? 7 days
244. I bought 12 dozen items for Rs. 1800. 15% of the goods got damaged in transport. What will be the selling price per dozen, if there is a net profit of 20%? Rs. 201
245. There were 3 shirts. Price of each was Rs. 600. If there is a Buy 3 get 2 offer is going on. What is the discount rate? 40%



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246. A question on surface area of cylinder and cone mixed figure. O is the circumcenter of an isosceles $\triangle ABC$. Given that $AB = AC = 17$ cm and $BC = 6$ cm, what is the radius of the circle?
247. Distance between A and B is 732..express train takes 6 hr more to cover AB than Rajdhani. If the speed of express train is double then it takes 3 hr less than Rajdhani. What is the speed of Rajdhani? – 61kmph
248. In what ratio must a grocer mix two varieties of pulses costing Rs.15 and Rs.20 per kg, respectively to get a mixture worth Rs.16.50 per kg? – 7:3
249. In a 500 m race, the ratio of the speeds of two contestants A and B is 3 : 4. If A has a head start of 140 m, A wins by? – 20 metres
250. Three unbiased coins are tossed. What is the probability of getting at most two heads? – $7/8$
251. Average of three quantities a, b and c is 504. If c is the double of b and b is the double of a, find the difference between a and c. – 648
252. Efficiency of A is double that of B. If A can finish a piece of work in 27 days, how long will they take to finish the work by working together? – 18 days
253. $\sin(A + B) - \sin(A - B) = ?$ Ans. $2\cos A \cdot \sin B$.
254. $\operatorname{cosec}(5\pi/4) = ?$ Ans. $-\sqrt{2}$.
255. $\tan(7\pi/4) = ? - 1$.
256. Simple interest on a sum at 16% rate of interest for 3 years is half the compound interest on Rs.12000 at 10% rate of interest for 3 years compounded annually. Find the sum. – 4137.5
257. Find the sum of $(81+82+83+\dots+130)$. – 5275
258. $\cos 4\pi/3 = ? -1/2$
259. $(\sin \theta)/(1 + \cos \theta)$
260. Formula for $\tan^3 \theta$
261. If A alone can eat 15 laddoos in 30 days and A & B together can eat 30 laddoos in 90 days. Then in 10 days, how many laddoos can B alone eat?
262. The circumference of the base of a cylinder is given as 44 cm. Its volume is given as 2310 cm^3 . Find total surface area of this cylinder.
263. $11/29 \times 100$

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264. Line intersection problem
265. $\tan^2 x + \cot^2 x + 2 = A$. Find A
266. $\tan (A-B)$ formula
267. $a/b = 5/8$ then find $a+b/a-b = ?$ $-13/3$
268. One question on area of square whose answer is 256
269. Given that the radius of a hemisphere is 14 cm, find its volume. 5750 cu.cm
270. Two points on a line are given. Find the slope parallel to this line.
271. Find the rate of Compound Interest when the interests generated in 2nd year and 3rd year are given.
272. Time speed distance question of Police and thief type.
273. $\sin A/2 = ?$
274. $\tan 5\pi/3 = ?$ $-\sqrt{3}$
275. $(\cos A \cot A)/(1 - \sin A) = ?$ $1 + \operatorname{cosec} A$
276. A can do a piece of work in 12 days and B can do it in 18 days. If they work together for 4 days, the how much work will be left? $4/9$
277. $\sin 7\pi/4 = ?$ $-1/\sqrt{2}$
278. A brother is 7 years older than his sister. 5 years ago, the product of their ages was 30 years. Then what is the age of the brother? 15 years
279. The LCM of 2 numbers is 19 and their HCF is 969. If one number is 57, then what is the other number? 323
280. $\cos^3 A = ?$
281. $\cot^4 x + \cot^2 x = ?$ $\cos^2 x / \sin^4 x$
282. $\operatorname{cosec} (11\pi/6) = 2$.
283. A company's expenditure and Profit percentage is given. What will be the revenue?
284. $1/(\operatorname{cosec} A + \cot A) = \sin A/(1 + \cos A)$ or $(1 - \cos A)/\sin A$.
285. If 27% discount on an item gives 25% profit, 17% discount will give how much profit?





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286. If after 24% discount, an item sells for Rs.36000, then on 40% discount, how much will the item sell for?
287. $5A = 7B = 3C$, then $A : B : C$?
288. A dodecahedron has 20 vertices. How many edges does it have? 30 edges
289. A boy goes to school at 12 km/h and a bus is coming from school at 45km/h, if they meet after 36 min, find the distance of school from home.
290. Simple interest on a sum in 2 years is 4800 and Compound interest is 5088, find rate of interest.
291. An equilateral triangle has its side equal to the diagonal of a square whose area is $15\sqrt{3}$, find area of the triangle.
292. $1/(\tan A + \tan B) = (\cos A \cdot \cos B) / \sin(A + B)$.
293. Profit % = 5%, Expenditure = 375 crore, Revenue=?
294. $1 / \operatorname{cosec} A - \cot A$
295. Area of triangle given. Find the side.
296. Volume of hemisphere.
297. Side of square is equal to diameter of a circle. Area of circle given, find area of square.
298. $\cot(-5\pi/6) = ?$
299. If the sum of the roots of a quadratic equation is 1 and the product of the roots is 20, then find the equation. $x^2 - x + 20 = 0$
300. A person can complete a piece of work in 36 days. If he works for 9 days, how much work is remaining? $3/4$
301. $\sin 5\pi/3$
302. If the radius of a circle is increased by 15% then what will be the increment in its area? 32.25%
303. $(4x - 5y)^2 = ?$
304. Two points on a line are given as (x,y) and (x_1,y_1) . The line passes through the x axis. Find the ratio between (something)
305. A principal amount accrues over a 2 year period a difference in Compound Interest and Simple Interest of Rs. 405, at a rate of 9%. Find the principal amount.



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306. In reference of $\cos A$ and $\sin A$, $\tan \frac{A}{2} = ? - \frac{\sin A}{(1 + \cos A)}$
307. A problem on divisibility of 11
308. $\cos 45 + \sin 30 = \frac{1}{\sqrt{2}} + \frac{1}{2}$
309. If in an year, nominal rate of interest is 3.5% and inflation is 2.5% , then what would be the effective rate of interest for that year?
310. The level of today's paper was same as the ones which recently took place.
Since we do not have the exact list of exact questions asked today, you can take an idea from the questions asked yesterday.
311. You had to find $\tan \frac{A}{2}$, from reference of $\cos A$ and $\sin A$, $= ? - \frac{\sin A}{(1 + \cos A)}$
312. $\cos 45 + \sin 30 = \frac{1}{\sqrt{2}} + \frac{1}{2}$
313. There was also a question on Interest:
If in an year, nominal rate of interest is 3.5% and inflation is 2.5% , then what would be the effective rate of interest for that year?
314. A problem on divisibility of 11
315. In today's paper, the questions asked on Quant were moderately tough. As we do not have exact list of questions asked, you can get some idea about the topics which were mainly asked.
316. The questions were mainly based on Ratio & Proportion, Trigonometry, Geometry & Profit & Loss. Also, there were also two questions asked based on Time, Speed & Distance.
317. $\sin \frac{5\pi}{3} = -\frac{\sqrt{3}}{2}$
318. $(4x - 5y)^2 = ?$
319. A principal amount accrues over a 2 year period and a difference in Compound Interest and Simple Interest is Rs. 405, at a rate of 9%. Find the principal amount. Ans: 50000





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320. If the radius of a circle is increased by 15% then what will be the increment in its area? 32.25%
321. LCM of two numbers is 2900% more than their HCF and sum of LCM and HCF of these two numbers is 310. If one of the number is 20, find the other number? Ans. 150.
322. In 40 L mixture of milk and water, the ratio of milk to water is 7:1. In order to make the ratio of milk and water 3:1, the quantity of water (in liters) that should be added to the mixture will be: Ans. 20/3.
323. Three persons walk from place A to place B. their speed are in the ratios 4:3:5. The ratio of the times taken by them to reach B will be: Ans. 15:20:12.
324. Average age of a woman and her daughter is 21 yr. If the ratio of their ages is 5:1, respectively, what will be the ratio of their ages after 5 years? Ans. 10:3.
325. Complete the following series.
418, 208, 102, 48, ?, 5
326. $\cot 60^\circ + \operatorname{cosec} 60^\circ = \sqrt{3}$



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