

150. If a tray contains 6 red socks and 4 blue socks, what is the probability that 2 socks, picked will be red?
- a)  $\frac{2}{15}$                       b)  $\frac{4}{15}$   
 c)  $\frac{1}{3}$                          d)  $\frac{2}{5}$   
 e) None of these
151. What is  $\frac{1}{2}$  of  $\frac{x}{2}$  ?
- a)  $\frac{1}{x}$                          b)  $\frac{1}{4}$   
 c)  $\frac{x}{4}$                          d)  $4x$   
 e) None of these
152.  $1\frac{1}{4}(x) = \frac{1}{2}$ . Find the value of x.
- a)  $\frac{2}{5}$                          b)  $\frac{5}{8}$   
 c)  $1\frac{3}{5}$                          d)  $2\frac{1}{2}$   
 e) None of these
153. Mr. A is now  $x-10$  years old. How old will be 10 years from now?
- a)  $x-20$                     b)  $x+10$   
 c)  $x$                          d)  $x+20$   
 e) None of these
154. When 75% of a number is added to 75, the result is the number again. Find the number.
- a) 350                         b) 300  
 c) 250                         d) 200  
 e) None of these
155. The volume of a cylinder is  $4158\text{ cm}^3$ . Its diameter is 21 cm. Find its total surface area.
- a) 1485                        b) 1265  
 c) 1375                        d) 1595  
 e) None of these
156. The diameter of a cone is 1.4 cm. Its slant height is 4.2 cm. Find curved surface area.
- a)  $9.24\text{ cm}^2$   
 b)  $2.24\text{ cm}^2$   
 c)  $8.14\text{ cm}^2$   
 d)  $6.94\text{ cm}^2$   
 e) None of these

157. The radius of a cone is 10.5 cm and its height is 14 cm. Find the slant height.
- a) 17.5 cm                    b) 21.5 cm  
 c) 23.5 cm                    d) 15.5 cm  
 e) None of these
158. Find the curved surface area of a cone with a radius of 4.9 cm and a slant height 'l' of 14 cm.
- a)  $225.6\text{ cm}^2$                 b)  $235.6\text{ cm}^2$   
 c)  $215.6\text{ cm}^2$                 d)  $245.6\text{ cm}^2$   
 e) None of these
159. How many litres of water can be stored in a hemisphere of radius 10.5 dm?
- a) 3465 lit                    b) 2425.5 lit  
 c) 2465.5 lit                 d) 3425 lit  
 e) None of these
160. Calculate the Curved Surface Area (C.S.A.) of a hemisphere whose radius is 1.75 cm.
- a)  $20.25\text{ cm}^2$                 b)  $19.25\text{ cm}^2$   
 c)  $21.25\text{ cm}^2$                 d)  $22.25\text{ cm}^2$   
 e) None of these
161. Find Total Surface Area (T.S.A.) of a hemisphere of diameter 20 cm.
- a)  $842.86\text{ cm}^2$                 b)  $886.26\text{ cm}^2$   
 c)  $942.86\text{ cm}^2$                 d)  $996.26\text{ cm}^2$   
 e) None of these
162. Calculate the surface area of a sphere whose radius is 21 cm.
- a)  $5544\text{ cm}^2$                  b)  $6622\text{ cm}^2$   
 c)  $7733\text{ cm}^2$                  d)  $4455\text{ cm}^2$   
 e) None of these
163. The total surface area of a sphere is  $154\text{ cm}^2$ . Its radius is 3.5 cm. Find its volume.
- a)  $169.77\text{ cm}^3$                 b)  $189.07\text{ cm}^3$   
 c)  $159.27\text{ cm}^3$                 d)  $179.67\text{ cm}^3$   
 e) None of these
164. A cone has a radius of 3 cm and slant height of 5 cm. Its vertical height is
- a)  $\sqrt{3^2+5^2}$                   b)  $5^2-3^2$   
 c)  $3^2+5^2$                       d)  $\sqrt{5^2-3^2}$   
 e) None of these
165. Write 0.00452 in scientific notation.
- a)  $4.52 \times 10^{-3}$                 b)  $452 \times 10^{-5}$   
 c)  $0.452 \times 10^{-2}$             d)  $45.2 \times 10^{-3}$   
 e) None of these

166. Write 4783 in standard form.

- a) 4783.0
- b) 4,783
- c)  $4.783 \times 10^3$
- d)  $4.783 \times 1000$
- e) None of these

167. Simplify  $x^4 \times x^3$

- a)  $x^{4-3}$
- b)  $x$
- c)  $x^{4 \times 3}$
- d)  $x^7$
- e) None of these

Directions: (Qns. 168-186): Find the value of question mark (?) in each question.

168.  $y^7 \div y = ?$

- a)  $y^7$
- b)  $y^6$
- c)  $y^5$
- d)  $y^{7 \times 1}$
- e) None of these

169. What per cent of  $\frac{5}{8}$  is  $\frac{8}{5}$ ?

- a) 100
- b) 64
- c) 256
- d) 1024
- e) None of these

170.  $2.3 + 6.5 - 7.1 + 4.9 - 1.4 + 8.6 - 5.3 = ?$

- a) 8.5
- b) 8.6
- c) 8.7
- d) 8.4
- e) None of these

171.  $\frac{4}{5} \div \frac{3}{4} \times \frac{1}{3} + \frac{2}{3} \div \frac{3}{5} \times \frac{5}{4} = ?$

- a)  $\frac{184}{45}$
- b)  $\frac{157}{90}$
- c)  $\frac{151}{90}$
- d)  $\frac{7}{10}$
- e) None of these

172. 91% of 380 + 44% of 220 = ?

- a) 452.6
- b) 342.6
- c) 442.6
- d) 444.6
- e) None of these

173.  $3.85 \times 5.45 + 4.65 = ?$

- a) 25.6325
- b) 24.6325
- c) 25.6425
- d) 25.6315
- e) None of these

174. ? of ? = 46.24

- a) 6.6
- b) 6.4
- c) 6.8
- d) 6.2
- e) None of these

175.  $3\frac{1}{8} \times 6\frac{2}{7} \div 5\frac{3}{5} \times 2\frac{4}{5} = ?$

- a)  $9\frac{23}{28}$
- b)  $8\frac{23}{28}$
- c)  $9\frac{25}{28}$
- d)  $9\frac{13}{28}$
- e) None of these

176.  $\frac{11}{5} - \frac{7}{8} + \frac{4}{9} - \frac{5}{6} = ?$

- a)  $\frac{347}{360}$
- b)  $\frac{337}{360}$
- c)  $\frac{119}{120}$
- d)  $\frac{169}{180}$
- e) None of these

177.  $1 + ? = \frac{14}{15} + \frac{3}{5}$

- a)  $\frac{13}{15}$
- b)  $\frac{11}{15}$
- c)  $\frac{7}{15}$
- d)  $\frac{8}{15}$
- e) None of these

178.  $625 \times 318 - 412 \times 156 = ?$

- a) 134478
- b) 124478
- c) 133478
- d) 134468
- e) None of these

179.  $\sqrt{441} = ?$

- a) 21
- b)  $\pm 21$
- c) 29
- d) 20.9
- e) None of these

180.  $\frac{3}{4} + \frac{7}{8} + \frac{1}{6} = ?$

- a)  $\frac{9}{12}$
- b)  $\frac{7}{12}$
- c)  $\frac{5}{24}$
- d)  $\frac{8}{12}$
- e) None of these

181.  $0.1 \times 0.01 \times 0.001 = ?$

- a) 0.1
- b) 0.0001
- c) 0.001
- d) 0.01
- e) None of these

182.  $\frac{3.92}{0.8} = ?$

- a) 0.4
- b) 0.44
- c) 0.044
- d) 0.04
- e) None of these

183.  $\frac{1}{3} \times \frac{5}{6} \times \frac{7}{8} \times \frac{8}{9} = ?$

- a) 35/162                      b) 34/161  
c) 4/61                         d) 5/72  
e) None of these

184.  $\frac{2}{3} \times \frac{5}{6} \times \frac{3}{9} \times \frac{1}{6} = ?$

- a) 7/216                         b) 12/286  
c) 5/216                         d) 9/216  
e) None of these

185.  $\frac{0.4 \times 0.5 \times 0.6 \times 0.7}{1 \times 2 \times 3} = ?$

- a) 0.14                         b) 0.104  
c) 0.014                        d) 10.14  
e) None of these

186.  $\frac{2.3 \times 4.5 \times 6.7 \times 3.4}{2 \times 3 \times 4 \times 5} = ?$

- a)  $\frac{235.773}{120}$                          b)  $\frac{127.334}{120}$   
c)  $\frac{243.337}{120}$                          d)  $\frac{137.43}{120}$   
e) None of these

187. A person gets Rs. 300 as 1st year's interest on a certain sum and Rs.330 as 2nd year's interest. Find the sum.

- a) Rs.9000                      b) Rs.3000  
c) Rs.4000                      d) Rs.5000  
e) None of these

188. A man buys 10 articles for Rs. 8 and sells the articles at the rate of 1.25 per article. His gain per cent is

- a) 50%                         b) 56¼%  
c) 20%                         d) 19½%  
e) None of these

189. A man buys 16 litres of milk at Rs. 4.80 per litre and adds 4 litres of water. If he wants a profit of 12½%, at what rate should he sell the mixture?

- a) Rs. 4.32 per litre  
b) Rs. 5.00 per litre  
c) Rs. 4.60 per litre  
d) Rs. 3.80 per litre  
e) None of these

190. 
$$\begin{array}{r} 9 \\ 99 \\ 999 \\ 9999 \\ + 99999 \end{array}$$

- a) 100105                      b) 111805  
c) 111105                      d) 111115  
e) None of these

191.  $\sqrt{\frac{4}{5} \times \frac{9}{125}} = ?$

- a)  $\frac{18}{25}$                               b)  $\frac{12}{125}$   
c)  $\frac{6}{25}$                               d) 0.316  
e) None of these

192. River A and River B have a combined length of 650 miles and River B is 250 miles shorter than River A. How many miles long is River B?

- a) 200                            b) 300  
c) 550                            d) 600  
e) None of these

193. A certain sum of money amounts to Rs.770/- in one year and amounts to Rs.847 in two years at certain rate of interest. Find the sum.

- a) Rs.700                        b) Rs.600  
c) Rs.500                        d) Rs.400  
e) None of these

194. A book contains 50 leaves. On each page there are 20 lines and in each line there are 10 words? How many words does that book contain?

- a) 10,000                        b) 15,000  
c) 20,000                        d) 25,000  
e) None of these

195. 20 men can dig 40 holes in 60 days. So, 10 men can dig 20 holes in how many days?

- a) 30 days                        b) 60 days  
c) 75 days                        d) 90 days  
e) None of these

196. Express 12.5 percent as a fraction.

- a)  $\frac{1}{4}$                               b)  $\frac{1}{8}$   
c)  $\frac{1}{16}$                              d)  $\frac{1}{32}$   
e) None of these

197. The length of a plot is twice its breadth. Its area is 4050 sq.m. Find the cost of fencing the plot at Rs.2.50 per metre.
- a) Rs. 525                      b) Rs. 675  
c) Rs. 415                      d) Rs. 652  
e) None of these
198. If Rs. 91/- is divided among A, B, C in the ratio  $1\frac{1}{2} : 3\frac{1}{3} : 2\frac{3}{4}$ , B will get
- a) Rs. 36                      b) Rs. 40  
c) Rs. 45                      d) Rs. 48  
e) None of these
199. In a triangle ABC, find Angle B, if Angles  $(B+C) = 130^\circ$  and Angle A = Angle C
- a)  $60^\circ$                       b)  $70^\circ$   
c)  $80^\circ$                       d)  $50^\circ$   
e) None of these
200. In a refugee camp there is enough food for 30 days for 20,000 persons. After 10 days, another 5,000 persons join in. If the ration to each is reduced by  $\frac{1}{2}$ , for how many more days will the food available be sufficient?
- a) 25 days                      b) 30 days  
c) 15 days                      d) 32 days  
e) None of these
201. The length and breadth of a room are in ratio 5:2. If length had been 8M less and width 4M more, the room would have been a square. What are the measurements of the room?
- a) Length 15 M; Breadth 2 M  
b) Length 18 M; Breadth 3 M  
c) Length 20 M; Breadth 8 M  
d) Length 16 M; Breadth 4 M  
e) None of these
202. If Rs. 1,440 is divided into two parts in which one part is  $\frac{7}{9}$  of the second, then the smallest part is
- a) Rs. 810                      b) Rs. 630  
c) Rs. 405                      d) Rs. 1,035  
e) None of these
203. An article was sold at a loss of 29%. Had it been sold for Rs.84 more, 11% would have been gained; the cost price of that article is
- a) Rs. 210                      b) Rs. 200  
c) Rs. 180                      d) Rs. 170  
e) None of these
204. In a  $\Delta ABC$ ,  $AB=AC=2.5$  cm,  $BC=4$  cm. Find its height from A to the opposite base.
- a) 1.5 cm                      b) 1 cm  
c) 2 cm                      d) 3 cm  
e) None of these
205. Price of 5 chairs and 2 tables is Rs.1350. Two chairs cost as much as one table. What is the price of one chair and one table?
- a) Rs. 450                      b) Rs. 350  
c) Rs. 500                      d) Rs. 550  
e) None of these
206. Average of 6 numbers is 8, what number should be added to it to make the average 9?
- a) 15                      b) 16  
c) 17                      d) 18  
e) None of these
207. The H.C.F. of two numbers is 11 and their L.C.M. is 7700. If one of the numbers is 275, the other is
- a) 279                      b) 283  
c) 308                      d) 318  
e) None of these
208. The cost of 125 shirts is Rs. 11,250 and transportation charges are Rs. 375. For a 20% profit, the selling price of each shirt should be
- a) Rs. 111.60  
b) Rs. 112.00  
c) Rs. 112.50  
d) Rs. 111.50  
e) None of these
209. 40 is what percent of 1200?
- a) 3                      b)  $3\frac{1}{3}$   
c)  $6\frac{2}{3}$                       d) 6  
e) None of these
210.  $\frac{1}{2} + \frac{3}{5} + \frac{6}{7} + \frac{8}{9} = ?$
- $\frac{1}{2} + \frac{1}{2} = ?$
- a)  $\frac{1}{630}$                       b)  $\frac{1793}{630}$   
c)  $\frac{17}{630}$                       d)  $\frac{13}{60}$   
e) None of these

$$\begin{array}{r} 211. \quad 3 \quad * \quad * \quad 8 \\ - \quad 3 \quad 0 \quad 4 \\ \hline 3 \quad 1 \quad 3 \quad 4 \end{array}$$

- a) 54                      b) 42  
c) 37                      d) 43  
e) None of these

$$212. \quad \frac{\sqrt{0.16}}{7} = 1$$

- a) 0.4                      b) 0.04  
c) 0.8                      d) 0.08  
e) None of these

213. There are 30 boys in a class and the average age is 15.1 years. Three new boys are put in this class, which made the average age 15.2 years. One new boy is aged 16 years the other two are twins. How old are the twins?

- a) 14 years                      b) 16.3 years  
c) 17 years                      d) 18 years  
e) None of these

214. The property of a man was divided among his wife, son and daughter according to his 'will' as follows: wife's share is equal to  $\frac{6}{7}$  of son's share and daughter's share is equal to  $\frac{4}{7}$  of son's. If the son and daughter together receive Rs. 1,02,300 how much does the wife get?

- a) Rs. 55,800                      b) Rs. 42,800  
c) Rs. 44,640                      d) Rs. 54,254  
e) None of these

$$215. \quad \frac{60000 - 60^2}{160 - 60} = ?$$

- a) 546                      b) 564  
c) 56.4                      d) 400  
e) None of these

$$216. \quad 1\frac{1}{2} + 2\frac{3}{4} + 4\frac{3}{8} = ?$$

- a)  $\frac{13}{8}$                       b)  $8\frac{1}{2}$   
c)  $7\frac{5}{8}$                       d)  $8\frac{5}{8}$

e) None of these

217. A earns 10% more than B, but 15% less than C. If B earns Rs. 85/-, then C earns

- a) Rs. 100                      b) Rs. 105  
c) Rs. 25                      d) Rs. 110  
e) None of these

218. Rs. 6 is divided among A, B and C so that A gets 59p more than B and 53p less than C. Then A gets

- a) Rs. 2  
b) Rs. 2.02  
c) Rs. 2.05  
d) Rs. 1.98  
e) None of these

$$219. \quad 6\frac{4}{7} + 8\frac{2}{5} - 5\frac{3}{4} = ?$$

- a)  $9\frac{5}{7}$                       b)  $8\frac{31}{140}$   
c)  $9\frac{3}{14}$                       d)  $9\frac{31}{140}$

e) None of these

220. A chair and a table together cost Rs. 100. If the chair costs Rs. 16 less than the table, the cost of the table is

- a) Rs. 42                      b) Rs. 84  
c) Rs. 64                      d) Rs. 58  
e) None of these

221. A certain number of 10 paise coins and thrice the number of 20 paise coins add up to Rs. 21.

If so, the number of 20 paise coins is

- a) 60                      b) 30  
c) 45                      d) 90  
e) None of these

222. The 16th term of the series 1, 3, 6, 10, 15, .... is

- a) 132                      b) 136  
c) 126                      d) 120  
e) None of these

223. A milk vendor buys 10 litres of milk at Rs. 4 per litre and adds 6 litres of water. If he wants a profit of 50%, at what rate he should sell this milk?

- a) Rs. 2.50                      b) Rs. 3.75  
c) Rs. 4.50                      d) Rs. 2.00  
e) None of these

224. To a certain number 7 is added. The sum is multiplied by 5, the product is divided by 9 and 3 is subtracted from the quotient. If the remainder is 12, what is the number?

- a) 24                      b) 20  
c) 40                      d) 48  
e) None of these

225. A can do a piece of work in 12 days, and B can do the same in 15 days. In how many days can both do it?

- a)  $5\frac{1}{2}$                       b)  $4\frac{1}{6}$   
c)  $6\frac{2}{3}$                       d)  $3\frac{1}{3}$   
e) None of these

226. A + B can do a work in 6 days and the same work can be done by B + C in 10 days or C + A in 12 days. In how many days the three together can complete the work?

- a)  $2\frac{1}{2}$                       b)  $5\frac{5}{7}$   
c)  $3\frac{1}{6}$                       d)  $4\frac{1}{2}$   
e) None of these

227.  $2\frac{1}{2}\%$  of 500 = 40% of ?

- a) 12.5                      b) 31.25  
c) 30.25                      d) 30.50  
e) None of these

228. Which of the following fractions is the largest in value?

- a)  $\frac{7}{8}$                       b)  $\frac{7}{9}$   
c)  $\frac{8}{9}$                       d)  $\frac{6}{7}$   
e) None of these

229.  $?^2 + \frac{13}{5} = 2\frac{19}{25}$

- a)  $\frac{5}{2}$                       b)  $\frac{3}{5}$   
c)  $\frac{4}{5}$                       d)  $\frac{2}{5}$   
e) None of these

230. 20% of 75% of ? = 72.75

- a) 455                      b) 485  
c) 495                      d) 465  
e) None of these

231.  $6029 - 1457 - 2628 + 437 - 59 = ?$

- a) 2222                      b) 2422  
c) 2332                      d) 2322  
e) None of these

232. The perimeter of a right-angled triangle is 144 cms. If the hypotenuse of the triangle is 60 cms and one of the other sides is 36 cms, what would be the area of the triangle ?

- a) 684 sq.cms.                      b) 864 sq.cms.  
c) 468 sq.cms.                      d) 844 sq.cms.  
e) None of these

233. Which digit would come in the unit's place of  $823^{579}$ ?

- a) 7                      b) 9  
c) 1                      d) 3  
e) None of these

234. How many times the digit zero would appear in the sequence of whole numbers upto (and including) 100 ?

- a) 10                      b) 9  
c) 11                      d) 12  
e) None of these

235. A and B have certain amounts in the ratio 3 : 5. If the difference in the amounts with A and that with B is Rs.314, what is the sum of the amounts with A and B together ?

- a) Rs.1356                      b) Rs.1266  
c) Rs.1256                      d) Rs.2512  
e) None of these

236. A shopkeeper purchases several articles at the rate of 11 for Rs.10 and sells them at the rate of 10 for Rs.11. What would be the profit earned by him ?

- a) 11%                      b) 10%  
c) 20%                      d) 21%  
e) None of these

237. If 81 be divided in proportion of  $\frac{1}{3}, \frac{1}{6}, \frac{1}{7}$ , then the first part is,

- a) 36                      b) 27  
c) 18                      d) 42  
e) None of these

238. If  $\sqrt{625}$  is 25, then the value of  $4 \div \sqrt{0.000625}$  will be

- a) 16.0                      b) 0.160  
c) 160                      d) 1600  
e) None of these

239.  $x : 6 :: 32 : 24$ . What is the value of x?

- a) 7                      b) 8  
c) 6                      d) 5  
e) None of these

240. Find the value of  $\frac{(85 \times 85) - (25 \times 25)}{(85 + 25)}$
- a) 60                      b) 40  
c) 45                      d) 50  
e) None of these
241. When 75% of a number is added to 75, the result is the number again. Find the number.
- a) 350                      b) 300  
c) 250                      d) 200  
e) None of these
242. Find the H.C.F. of 24 and 30 from the following
- a) 2                          b) 4  
c) 6                          d) 8  
e) None of these
243. Find the L.C.M. of 6, 8 and 10.
- a) 24                          b) 58  
c) 86                          d) 120  
e) None of these
244. 45% of x + 30% of 90 = 30% of 210. Then what is the value of x?
- a) 80                          b) 85  
c) 90                          d) 95  
e) None of these
245. A person gets Rs.300/- as 1st year's interest on a certain sum and Rs.330/- as 2nd year's interest. Find the sum.
- a) Rs. 9000                  b) Rs. 3000  
c) Rs. 4000                  d) Rs. 5000  
e) None of these
246. The compound interest on Rs.5,000 for two years at 4% is
- a) Rs. 400                      b) Rs. 408  
c) Rs. 420                      d) Rs. 440  
e) None of these
247. Add:
- |       |   |   |   |   |   |   |   |   |
|-------|---|---|---|---|---|---|---|---|
| 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 9     | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| 1     | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 9     | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| <hr/> |   |   |   |   |   |   |   |   |
| <hr/> |   |   |   |   |   |   |   |   |
- a) 222222220  
b) 222202220  
c) 42222222  
d) 22224220  
e) None of these

248. A has Rs. 120 less than B. C has Rs. 60 more than A. If all the three have Rs.1080 totally, the amount B has is
- a) Rs. 400                      b) Rs. 380  
c) Rs. 420                      d) Rs. 450  
e) None of these
249. There are 5 numbers. The average of first four is 8 and the last four is 10. If the first number is 4, what is the last number?
- a) 20                          b) 18  
c) 12                          d) 10  
e) None of these
250.  $\frac{(27)^{n/3} \times (8)^{-n/6}}{(162)^{-n/2}}$
- a)  $2^{3n}$                           b)  $3^{5n}$   
c)  $3^{3n}$                           d)  $4^{4n}$   
e) None of these
251. The average height of 40 students in a class was 160 cm. After 10 students join, the average became 156 cm. What is the total height of the 10 students newly joined?
- a) 1200 cm  
b) 1400 cm  
c) 1100 cm  
d) 1000 cm  
e) None of these
252. A dealer marks his goods 25% above Cost Price and then while selling gives a discount of 12% on Market Price. What is his percentage of Profit?
- a) 20%                          b) 30%  
c) 40%                          d) 10%  
e) None of these
253. A shop keeper sells 2 radios, each for Rs.600. If he gains 12% on one and suffers a loss of 12% on the other, what is his overall gain or loss?
- a) 1.25%                          b) 1.35%  
c) 1.10% loss                  d) 1.44% loss  
e) None of these
254. A merchant sells goods for Rs. 900 and gains 12½%. If he wants a gain of 15%, for how much more he has to sell the goods?
- a) Rs. 20                          b) Rs. 30  
c) Rs. 40                          d) Rs. 10  
e) None of these

255. A boat crosses a distance of 30 km in 5 hrs downstream, and takes 6 hrs to cover the same distance upstream. What is the speed of the boat? (or of current?)
- a)  $2\frac{1}{2}$                       b)  $3\frac{1}{3}$   
 c)  $4\frac{1}{6}$                       d)  $5\frac{1}{2}$   
 e) None of these
256. The length and breadth of a rectangular field are in the ratio of 5 : 3. It's area is 1500 sq.mts. Find the cost of fencing the field at Re.1 per metre.
- a) Rs.400                      b) Rs. 160  
 c) Rs. 55                      d) Rs. 80  
 e) None of these
257. The Simple Interest on a sum of money for  $2\frac{1}{2}$  years at 6% per annum is more than the Simple Interest on the same money for  $1\frac{1}{2}$  years at 8% per annum by Rs.18. What is the sum?
- a) Rs. 200                      b) Rs. 300  
 c) Rs. 400                      d) Rs. 600  
 e) None of these
258. What is the interest amount on a sum of Rs. 2500 at 12% Compound Interest for 2 years?
- a) Rs. 325                      b) Rs. 636  
 c) Rs. 450                      d) Rs. 500  
 e) None of these
259. A teacher buys a colour T.V. for Rs. 11,256 at  $8\frac{1}{3}$  % Compound Interest and repays the amount in 3 equal annual instalments, at the end of every year. How much should be paid in each instalment?
- a) Rs. 4100                      b) Rs. 4200  
 c) Rs. 3800                      d) Rs. 4394  
 e) None of these
260. The marked price is 10% higher than the cost price. A discount of 10% is given on the marked price. In this kind of sale the seller has
- a) no loss, no gain  
 b) loses  
 c) gains  
 d) lost 1%  
 e) None of these
261. A train goes at a speed of 54 kms per hour. It takes 15 seconds to cross a bridge of 150 m length. The length of the train is
- a) 50 m                      b) 75 m  
 c) 60 m                      d) 80 m  
 e) None of these
262. A sum at Simple Interest amounts to Rs. 1000 in 2 yrs and Rs. 4000 in 5 yrs. Find the sum and rate of interest.
- a) Rs. 1300                      b) Rs. 1400  
 c) Rs. 1200                      d) Rs. 1500  
 e) None of these
263. The difference between the Simple Interest and Compound Interest on a certain sum for 2 years at 15% interest is Rs.90. Find the Principal.
- a) Rs. 3000  
 b) Rs. 3500  
 c) Rs. 4000  
 d) Rs. 2500  
 e) None of these
264. A 100 m long train crosses a stationary man in 10 seconds. What is the speed of the train?
- a) 35                      b) 36  
 c) 70                      d) 72  
 e) None of these
265. By selling 15 pencils for Rs. 30, Rahim lost 20%. How many should he sell for Rs. 52 to have a gain of 30%?
- a) 40                      b) 16  
 c) 35                      d) 50  
 e) None of these
266. Convert 0.05 into percentage  
 Hint : Percentages are expressed as a fraction of 100.
- a) 5%                      b) 0.05%  
 c) 50%                      d)  $\frac{1}{2}$  %  
 e) None of these
267. What percent of  $\frac{5}{8}$  is  $\frac{8}{5}$  ?
- a) 128                      b) 256  
 c) 8                      d) 5  
 e) None of these
268. A number when divided by 3, is reduced by 20. The number is
- a) 33                      b) 30  
 c) 21                      d) 60  
 e) None of these



269. Three-fourth of a certain number is 60. Half of that number is
- a) 20                      b) 30  
c) 40                      d) 80  
e) None of these
270. The difference of two numbers is 11 and  $\frac{1}{3}$  of their sum is 7. Then one number is
- a) 16                      b) 11  
c) 7                        d) 10  
e) None of these
271. Three numbers are in the ratio 3 : 4 : 5 and their average is 24. The largest number is
- a) 10                      b) 15  
c) 45                      d) 30  
e) None of these
272. If  $a : b = 2 : 3$  and  $b : c = 3 : 4$ . Find  $a : b : c$  and  $a : c$ .
- a) 1 : 2                    b) 2 : 1  
c) 1 : 3                    d) 3 : 1  
e) None of these
273. If  $A : B = 3 : 4$ ,  $B : C = 4 : 5$  and  $C : D = 6 : 7$ ,  $A : D = ?$
- a)  $\frac{35}{18}$                       b)  $\frac{18}{35}$   
c)  $\frac{5}{7}$                         d)  $\frac{6}{7}$   
e) None of these
274. Find the area of a triangle whose sides measures 15 cm, 16 cm, 17cm.
- a) 110                      b) 109.98  
c) 112                      d) 111  
e) None of these
275. Find the HCF of  $\frac{6}{8}$ ,  $2\frac{1}{2}$  and  $\frac{15}{16}$
- a)  $\frac{5}{16}$                       b)  $\frac{8}{16}$   
c)  $\frac{1}{16}$                       d)  $\frac{10}{16}$   
e) None of these
276. Simplify:  $1\frac{1}{7}$  of  $3\frac{1}{2}$  -  $\frac{4}{15}$  of  $3\frac{3}{4}$
- a) 7                        b) 3  
c) 1                        d) 4  
e) None of these

277. Find the square root of 0.000943
- a) 0.30                    b) 0.3030708  
c) 0.03037              d) 0.308  
e) None of these

278.  $\sqrt{10} = 3.162$ ,  $\sqrt{5} = 2.236$ . Find  $\frac{\sqrt{10} - \sqrt{5}}{\sqrt{2}}$
- a) 0.65                    b) 0.056  
c) 0.655                d) 0.565  
e) None of these

279. The average age of a class of 22 students is 21 years. The average increases by 1 when the teacher's age is also included. What is the age of the teacher?
- a) 44                      b) 43  
c) 41                      d) 40  
e) None of these

280.  $A : B = 2 : 3$ ,  $C : B = 3 : 4$ . Then  $A : C =$
- a) 2 : 3                    b) 2 : 4  
c) 8 : 9                    d) 9 : 8  
e) None of these

281. A and B can do a piece of work in 45 and 40 days respectively. After some days A leaves. B finished the work in 23 days. After how many days did A leave?
- a) 6                        b) 8  
c) 9                        d) 10  
e) None of these

282. What is the square root of 0.09?
- a) 0.3                      b) 0.03  
c) 0.003                d) 3.0  
e) None of these

*Directions (Qns. 283-295): Find the value of question mark (?) in each question.*

283.  $250 \times 350 - 170 = ?$
- a) 14400                b) 28000  
c) 45000                d) 87330  
e) None of these

284.  $7\frac{1}{2} + 6\frac{2}{5} - 3\frac{1}{4} = ?$

- a)  $10\frac{13}{20}$                     b)  $10\frac{3}{5}$   
c)  $11\frac{13}{20}$                     d)  $16\frac{13}{20}$   
e) None of these

285.  $5.6 \times 4.5 + 3.4 = ?$   
 a) 123.24                      b) 73.6  
 c) 57.54                        d) 13.5  
 e) None of these
286.  $40.84 \times 5.5 + 4.5 \times 6.40 = ?$   
 a) 253.42                      b) 2613.76  
 c) 243.12                        d) 1400.812  
 e) None of these
287.  $3\frac{1}{4} + 48\% \text{ of } 70 + 2.4 = ?$   
 a) 38.25                        b) 39.15  
 c) 39.25                        d) 39.05  
 e) None of these
288.  $61348 + 12109 - 19967 - ? = 34008$   
 a) 19482                        b) 20482  
 c) 19582                        d) 19682  
 e) None of these
289.  $\sqrt{1089} + 5\frac{3}{4} \text{ of } 32 = ?$   
 a) 271                            b) 217  
 c) 207                            d) 227  
 e) None of these
290.  $3 + 5 \div 10 \times [2 + 6 - (12 \div 4 + 6 \div 3)] \div 5 - 5] \div 4 = ?$   
 a)  $3\frac{3}{4}$                               b)  $3\frac{1}{2}$   
 c)  $3\frac{2}{5}$                               d)  $3\frac{1}{4}$   
 e) None of these
291.  $\frac{65 \times 14 \div 25 + 19}{14 \times 25 \div 28 - ?} = 27.7$   
 a) 14.5                            b) 10.5  
 c) 15.5                            d) 10.2  
 e) None of these
292.  $78\% \text{ of } (2 \div 5) = 26\% \text{ of } ?$   
 a)  $1\frac{1}{5}$                               b)  $2\frac{1}{5}$   
 c)  $1\frac{2}{5}$                               d)  $2\frac{2}{5}$   
 e) None of these
293.  $1.6 : 0.021 :: 140 : ?$   
 a) 1.6375                        b) 1.8375  
 c) 1.8475                        d) 2.8375  
 e) None of these

294.  $28\% \text{ of } 0.4 + 48\% \text{ of } 0.20 = ?$   
 a) 0.208                        b) 2.008  
 c) 1.072                        d) 0.308  
 e) None of these
295.  $2194 + 6873 - 1951 - ? = 3587$   
 a) 10683                        b) 3429  
 c) 3529                         d) 3259  
 e) None of these
296. Which of the following is the largest four digit number which is exactly divisible by 7, 9 and 15?  
 a) 9450                         b) 9765  
 c) 9865                         d) 9550  
 e) None of these
297. The average of 5 numbers is 6; The average of 3 numbers is 4; what is the average of remaining two numbers?  
 a) 9                               b) 21  
 c) 12                              d) 8  
 e) None of these
298. At simple interest a sum of money is doubled in 20 years. What is the rate of interest?  
 a) 20                              b) 4  
 c) 5                                d) 10  
 e) None of these
299. The compound interest on Rs. 3000 for 3 years at 10% per annum is  
 a) Rs. 900                       b) Rs. 933  
 c) Rs. 963                       d) Rs. 993  
 e) None of these
300. A, B and C can do a piece of work in 7 days, 14 days and 28 days respectively. If they work together, the work will be finished in  
 a) 2 days                         b) 3 days  
 c) 4 days                         d) 5 days  
 e) None of these
301. The diameter of a cone is 1.4 cm. Its slant height is 4.2 cm. Find the curved surface area.  
 a)  $9.24 \text{ cm}^2$                    b)  $2.24 \text{ cm}^2$   
 c)  $8.14 \text{ cm}^2$                    d)  $6.94 \text{ cm}^2$   
 e) None of these
302.     7 7 7  
       - \* \* \* \* \*  
       5 8 4 7 9  
 a) 19428                        b) 19298  
 c) 19498                        d) 14998  
 e) None of these