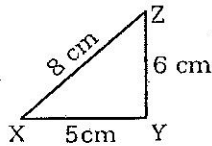


303. Find the value of  
 $12 \times 12 + 2 \times 12 \times 15 + 15 \times 15$   
 a) 729                      b) 749  
 c) 725                      d) 745  
 e) None of these
304. What is the ratio of 1m 50 cm to 1m 80 cm?  
 a) 5 : 6                      b) 4 : 5  
 c) 2 : 3                      d) 3 : 4  
 e) None of these
305. Find the LCM of 50 and 40.  
 a) 5                              b) 200  
 c) 4                              d) 100  
 e) None of these
306. In a triangle of XYZ, XY the adjacent side is 5 cm; the opposite side YZ is 6 cm and the hypotenuse ZX is 8 cm. Then find tan of X.



- a)  $\frac{6}{5}$                               b)  $\frac{5}{6}$   
 c)  $\frac{5}{8}$                               d)  $\frac{8}{5}$   
 e) None of these
307. What decimal fraction of a Kg is 510 gms?  
 a) 5.1                              b) 0.051  
 c) 0.51                              d) 0.0051  
 e) None of these
308. Which is the greatest fraction?  
 a)  $\frac{7}{8}$                               b)  $\frac{6}{7}$   
 c)  $\frac{8}{10}$                               d)  $\frac{8}{9}$   
 e) None of these
309. A train 150 m long crossed 175 m long platform in 13 seconds. Calculate the speed of the train in km/hr.  
 a) 90                              b) 100  
 c) 110                              d) 150  
 e) None of these
310. If  $A : B = 2 : 3$ ,  $B : C = 4 : 5$ ,  $C : D = 6 : 7$ ,  
 $A : D = ?$   
 a) 2 : 7                              b) 7 : 8  
 c) 16 : 35                              d) 4 : 13  
 e) None of these

311. The equal value of 56 meters is  
 a) 560 hm.                      b) 0.56 cm.  
 c) 5.6 deca m.                      d) 5.6 m  
 e) None of these
312. Which ratio is greater?  
 a) 12 Km : 30 Km  
 b) 15 litres : 65 litres  
 c) 20 litres : 45 litres  
 d) 10 Rs : 10 Ps.  
 e) None of these

*Directions: (Qns. 313-315): Find the value of question mark (?) in each question.*

313.  $\left(\frac{5}{6} + \frac{11}{16}\right) \div \frac{73}{24} = ?$

- a)  $\frac{1}{4}$                               b)  $\frac{73}{24}$   
 c)  $\frac{1}{2}$                               d)  $\frac{1}{3}$   
 e) None of these

314.  $1 + \frac{1}{1 + \frac{1}{1 - \frac{1}{6}}} = ?$

- a)  $\frac{6}{11}$                               b)  $\frac{7}{6}$   
 c)  $\frac{1}{6}$                               d)  $\frac{16}{11}$   
 e) None of these

315.  $4\frac{2}{3} \times 3\frac{1}{5} + 1\frac{1}{2} = ?$

- a)  $5\frac{1}{3}$                               b)  $5\frac{1}{5}$   
 c)  $8\frac{1}{5}$                               d)  $3\frac{1}{5}$   
 e) None of these

316. In the following number series a wrong number is given; find out that wrong number?

14.5, 15.5, 17.5, 20, 24.5, 29.5

- a) 15.5                              b) 20  
 c) 17.5                              d) 24.5  
 e) None of these

317. 30% of 1860 + 40% of 820 = ? % of 3544

- a) 30                              b) 25  
 c) 35                              d) 40  
 e) None of these

318. A 140 metres long train crosses a signal post in 7 seconds. What is the speed of the train in kmph?

- a) 72                      b) 64  
c) 84                      d) Data inadequate  
e) None of these

319. The price of four dozens of pens is Rs. 748.80. What will be the approximate price of 29 such pens?

- a) Rs. 450                b) Rs. 500  
c) Rs. 475                d) Rs. 425  
e) None of these

**Directions: (Qns. 320-326): Find the value of question mark (?) in each question.**

320.  $\frac{19}{7} \times \frac{64}{18} \times \frac{21}{38} \times \frac{54}{16} = ?$

- a) 9                              b) 18  
c)  $\frac{1}{2}$                               d)  $\frac{32}{21}$   
e) None of these

321.  $999 + 99 + 9999 = ?$

- a) 11097                      b) 9997  
c) 11098                      d) 11197  
e) None of these

322. What should be added to 18962 to make it exactly divisible by 13?

- a) 1                              b) 2  
c) 5                              d) 4  
e) None of these

323.  $\begin{array}{r} 56 \\ 74 * 1 \\ 8 \\ + 946 \\ \hline 8431 \end{array}$

- a) 5                              b) 2  
c) 7                              d) 8  
e) None of these

324.  $\begin{array}{r} * * * \\ 9999 \\ + 9006 \\ \hline 2000 \end{array}$

- a) 985                              b) 915  
c) 955                              d) 965  
e) None of these

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

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

326.  $1\frac{1}{3} \times 3\frac{7}{8} \div 1\frac{3}{5} = ?$

- a)  $\frac{155}{64}$                               b)  $\frac{48}{155}$   
c)  $\frac{155}{48}$                               d)  $\frac{155}{24}$   
e) None of these

327. 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

328. 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

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

- a) Rs. 110                      b) Rs. 105  
c) Rs. 25                      d) Rs. 115  
e) None of these

330. If Rs. 91/- is divided among A, B, C in the

ratio  $1\frac{1}{2} : 3\frac{2}{3} : 2\frac{3}{4}$ , B will get

- a) Rs. 36                      b) Rs. 40  
c) Rs. 45                      d) Rs. 48  
e) None of these

331. A radio dealer fixed the Selling Price of a transistor radio at Rs.144 each at a profit of 12½%. 3 transistors broke into pieces and rest were sold at the fixed Selling Price. If his loss on the whole was Rs.96, how many transistors did he have in the beginning?

- a) 18                              b) 21  
c) 15                              d) 12  
e) None of these

332.  $63 \div \sqrt{0.0049} = ?$   
 a) 1.285                      b) 900  
 c) 90                              d) 12.85  
 e) None of these
333. A bag contains a number of 10 paise, 20 paise, 25 paise coins in the ratio of 7:4:3. If the money value comes to be Rs.90/-, the number of 25 paise coins in the bag is  
 a) 120                              b) 160  
 c) 280                              d) 30  
 e) None of these
334. 'A' does work in 5 days for which 'B' takes only 4 days. 'C' does a work in 3 days for which B takes only 2 days. If Rs. 7.40 be the daily wage for their combined work, then A's share will be  
 a) Rs. 3                              b) Rs. 2.40  
 c) Rs. 2                              d) Rs. 1.50  
 e) None of these
335. The total salary of 2 watchmen is Rs.510. One spends 80% of his salary and the other 70%. If their savings are in ratio 3:4, what are their salaries?  
 a) Rs.200 & Rs.250      b) Rs.280 & Rs.220  
 c) Rs.300 & Rs.200      d) Rs.270 & Rs.240  
 e) None of these
336. 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
337. The value of  $\sqrt{(65)^2 - (16)^2}$   
 a) 63                              b) 62  
 c) 60                              d) 65  
 e) None of these
338. The length of the rectangle is twice its breadth. If its breadth be 'b', then its perimeter is  
 a) 3b                              b) 6b  
 c)  $2b^2$                               d)  $3b^2$   
 e) None of these
339. 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

340. 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
341. Raman invests a sum of Rs. 900 at 8% Simple Interest and Gopi invests a sum of Rs. 1200 at  $3\frac{1}{2}\%$  Simple Interest. After how much time will they both have equal amounts in their accounts?  
 a) 20 years                              b) 30 years  
 c) 40 years                              d) 10 years  
 e) None of these
342. A train, 180 m long, is running at a speed of 90 km/hr. How long will it take to pass railway signal?  
 a) 72 seconds                              b) 7.2 seconds  
 c) 27 seconds                              d) 2 seconds  
 e) None of these
343. If  $\frac{a}{b} = \frac{1}{3}$ , then  $\frac{5a + b}{5a - b}$  equal to  
 a) 4                                      b)  $\frac{16}{14}$   
 c)  $\frac{14}{16}$                                       d)  $\frac{1}{4}$   
 e) None of these
344. If  $0.5 \times A = 0.0003$ , then the value of A will be  
 a) 0.6                                      b) 0.06  
 c) 0.006                                      d) 0.0006  
 e) None of these
345. A vendor bought lemon at the rate of 6 for a rupee. How many for a rupee must he sell to gain 20%?  
 a) 5                                      b) 4  
 c) 3                                      d) 6  
 e) None of these
346. The square root of 0.0081 will be  
 a) 0.009                                      b) 0.09  
 c) 0.0009                                      d) 0.9  
 e) None of these
347. The value of  $\sqrt{16 + \sqrt{80 + \sqrt{5000 - 4999}}}$  will be  
 a) 5                                      b) 13  
 c)  $\sqrt{97}$                                       d) 9  
 e) None of these



348. The average age of X, Y and Z is 46 years. If the average age of X and Y is 44.5 years, what is the age of Z ?  
 a) 48 years                      b) 50 years  
 c) 47 years                      d) 46 years  
 e) None of these
349. What will be the principle sum if the simple interest earned on it at the rate of 8% p.a. for three years is Rs.1080 ?  
 a) Rs.4600                      b) Rs.4500  
 c) Rs.4800                      d) Rs.5000  
 e) None of these
350. The sides of two squares are in the ratio 3 : 5. If the combined area of these two squares is 306 sq.cms; what would be the side of the smaller square ?  
 a) 3 cms.                      b) 6 cms.  
 c) 9 cms.                      d) 12 cms.  
 e) None of these
351. What per cent of a day is 3 hours ?  
 a) 12.5                      b) 10  
 c) 9                      d) 7.5  
 e) None of these
352. If three-seventh of two-fifth of a number is 198, what is the number ?  
 a) 1255                      b) 1145  
 c) 1055                      d) 1155  
 e) None of these
353. Which of the following numbers is wrong in the following number series ?  
 10, 21, 64, 255, 1286, 7717, 54020  
 a) 21                      b) 255  
 c) 64                      d) 1286  
 e) 7717
354. "A" sells an article to "B" at a profit of 10%, while "B" sells it to "C" for Rs.2310 at a profit of 20%. At what price must "A" have got the article ?  
 a) Rs.1375                      b) Rs.1550  
 c) Rs.1600                      d) Rs. 1750  
 e) None of these
355. A pair of articles was bought for Rs.37.40 at a discount of 15%. What must be the marked price of each of the article ?  
 a) Rs.44                      b) Rs.33  
 c) Rs.22                      d) Rs.11  
 e) None of these

356. What fraction of a minute are three seconds ?  
 a) 1/30                      b) 1/20  
 c) 1/15                      d) 1/10  
 e) None of these
357. When the profit of Rs.4401 is distributed among two business partners, the difference in their shares is Rs.489. What must be the ratio of distribution ?  
 a) 5 : 4                      b) 3 : 2  
 c) 2 : 1                      d) 8 : 1  
 e) None of these

**Directions: (Qns. 358-370): Find the value of question mark (?) in each question.**

358.  $5\frac{3}{5} \times 2\frac{1}{7} + 5\frac{1}{2} = ?$   
 a)  $17\frac{1}{2}$                       b)  $9\frac{1}{2}$   
 c)  $20\frac{1}{2}$                       d)  $17\frac{3}{4}$   
 e) None of these
359.  $6\frac{1}{4} \div 1\frac{2}{3} - 1\frac{1}{3} = ?$   
 a)  $2\frac{1}{12}$                       b)  $1\frac{1}{12}$   
 c)  $2\frac{5}{12}$                       d)  $4\frac{5}{12}$   
 e) None of these
360.  $8514 + 3028 + 1213 = ?$   
 a) 12855                      b) 12755  
 c) 12935                      d) 12665  
 e) None of these
361.  $8888 + 888 - 88 = ?$   
 a) 8088                      b) 9608  
 c) 9678                      d) 8808  
 e) None of these
362.  $5.6 \times 4.5 + 3.4 = ?$   
 a) 123.24                      b) 73.6  
 c) 57.54                      d) 13.5  
 e) None of these
363.  $560.25 - ? = 739.25 - 241.67$   
 a) 62.67                      b) 72.07  
 c) 421.27                      d) 52.07  
 e) None of these

364.  $8\frac{2}{3} + 11\frac{1}{3} - ? = 12\frac{2}{5}$

- a)  $7\frac{2}{5}$                       b)  $8\frac{3}{5}$   
 c)  $6\frac{3}{5}$                       d)  $7\frac{3}{5}$   
 e) None of these

365.  $40\% \text{ of } 2400 + ?\% \text{ of } 600 = 50\% \text{ of } 3840$

- a) 50                          b) 40  
 c) 80                          d) 60  
 e) None of these

366.  $175 \times ? = 140\% \text{ of } 1200$

- a) 8.4                          b) 7.5  
 c) 13.44                      d) 9.6  
 e) None of these

367.  $18 \times 144 \div 12 \times ? = 1296$

- a) 4                              b) 6  
 c) 8                              d) 2  
 e) None of these

368.  $\sqrt{441} = ?$

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

369.  $\left[\frac{1}{3} + \frac{1}{2}\right] \times \frac{3}{4} \left[\frac{2}{3}\right] = ?$

- a)  $5/12$                           b)  $1/12$   
 c)  $7/12$                           d)  $3/10$   
 e) None of these

370.  $\frac{6}{7} \div \frac{8}{9} \left[\frac{1}{2} + \frac{1}{2} + \frac{1}{3}\right] = ?$

- a)  $1/12$                           b)  $12/33$   
 c)  $81/112$                       d)  $8/223$   
 e) None of these

371. Add:    2    6    4    7    6  
               7    8    2    3    4  
               9    7    4    6    2  
               3    8    6    4    3

- a) 240185                      b) 234715  
 c) 240815                      d) 294805  
 e) None of these

372. The simple interest on a certain sum is Rs. 1200 in 3 years and the compound interest in two years is Rs. 825/-. The rate of interest is

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

373. 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)  $56\frac{1}{4}\%$   
 c) 20%                              d)  $19\frac{1}{2}\%$   
 e) None of these

374.  $8\frac{16}{25}$  is 48% of ?

- a) 38                              b) 20  
 c) 18.5                              d) 48.25  
 e) None of these

375. 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

376.  $\frac{\sqrt{0.0000136}}{\sqrt{0.003}} = ?$

- a) 0.148522                      b) 6.7330032  
 c) 0.06733                          d) 4.21742  
 e) None of these

377.  $6^{3^2} = ?$

- a) 108                              b) 324  
 c) 1296                              d) 46656  
 e) None of these

378. Simple interest on Rs. 600 at 18% per annum for 9 months is

- a) Rs. 108                              b) Rs. 81  
 c) Rs. 91                              d) Rs. 180  
 e) None of these

379. If  $A : B = 5 : 4$ ,  $B : C = 8 : 35$ , then  $A : C$  will be

- a) 1 : 7                              b) 2 : 7  
 c) 3 : 7                              d) 7 : 2  
 e) None of these

380. The square root of 0.0081 will be

- a) 0.009                              b) 0.09  
 c) 0.0009                          d) 0.9  
 e) None of these

381.  $8008 - 8000 \div 10.00 = ?$   
 a) 0.8                      b) 80  
 c) 7208                     d) 8000  
 e) None of these
382. The average of 9 numbers is 7 and the average of 7 other numbers is 9. What is the average of all numbers considered together?  
 a) 8                          b)  $7\frac{14}{16}$   
 c)  $8\frac{15}{16}$                       d)  $8\frac{1}{2}$   
 e) None of these
383. Which of the following numbers is the largest?  
 a)  $(2+2+2)^2$               b)  $\{(2+2)^2\}^2$   
 c)  $(2 \times 2 \times 2)^2$             d)  $2+2^2+(2)^2$   
 e) None of these
384. It cost Rs. 1,000 to make the first 1,000 copies of a book and X rupees to make each subsequent copy. If it costs a total of Rs. 7,230 to make the first 8,000 copies of a book, what is X?  
 a) 0.89                      b) 0.90375  
 c) 1                          d) 89  
 e) None of these
385.  $1\frac{1}{4} (?) = \frac{1}{2}$   
 a)  $\frac{2}{5}$                           b)  $\frac{5}{8}$   
 c)  $1\frac{3}{5}$                           d)  $2\frac{1}{2}$   
 e) None of these
386. The average salary per head of all workers of an institution is Rs. 60. Average salary per head of 12 officers is Rs. 400. The average salary per head of the rest is Rs. 56. Find the total number of workers in the institution.  
 a) 42                          b) 1,000  
 c) 1,040                      d) 1,032  
 e) None of these
387. In a kilometre race, A can beat B by 20 metres while in a 500 metres race B can beat C by 15 metres. By what distance will A beat C in a 100 metres race?  
 a) 4.94 metres              b) 5.14 metres  
 c) 6.24 metres              d) 7.46 metres  
 e) None of these

388. The total weight of three children is 152 pounds and 4 ounces. The average weight is 50 pounds and how many ounces? (16 ounces = 1 pound)  
 a)  $\frac{1}{3}$  ounces                  b)  $\frac{1}{2}$  ounces  
 c)  $1\frac{1}{3}$  ounces                d) 12 ounces  
 e) None of these
389. If 4 men or 7 boys can do a work in 29 days, then what time will 12 men and 8 boys take to do the same work?  
 a) 7                              b) 9  
 c) 11                            d) 13  
 e) None of these
390. If  $a + \frac{1}{a} = 5$  then  $a^2 + \frac{1}{a^2} = ?$   
 a) 23                            b) 25  
 c) 27                            d) 0  
 e) None of these
391. If  $(a+b+c) = 0$  then  $a^3+b^3+c^3 = ?$   
 a) abc                          b)  $3abc$   
 c)  $37abc$                       d)  $a+b+c$   
 e) None of these
392. 40 grams can be written in kilograms as  
 a) 0.004                      b) 0.04  
 c) 0.41                        d) 40  
 e) None of these
393. When 75% of a number is added to 75, then the result is the number again. The number is given by  
 a) 100                          b) 200  
 c) 250                          d) 300  
 e) None of these
394.  $A : B = 4 : 5$ ;  $B : C = 3 : 8$ ;  $A : C = ?$   
 a) 4 : 5                          b) 12 : 40  
 c) 8 : 5                          d) 5 : 8  
 e) None of these
395. Divide Rs. 8,100 to A, B, C such that  $\frac{1}{2}$  of A's share,  $\frac{1}{3}$  of B's share and  $\frac{1}{4}$  of C's share are equal. Then A's share is  
 a) Rs. 1,000                  b) Rs. 1,500  
 c) Rs. 1,800                  d) Rs. 240  
 e) None of these



396. If some articles are bought at prices ranging from Rs. 200 to Rs. 350 and are sold at prices ranging from Rs. 300 to Rs. 425, what is the maximum possible profit that might be made in selling 16 such articles?  
 a) Rs. 1,600                      b) Rs. 1,200  
 c) Rs. 800                         d) Rs. 400  
 e) None of these
397. A farmer took a loan at 12% p.a. at S.I. After 4 years he settled the loan by paying Rs. 2,442. What was the principal amount?  
 a) Rs. 1,542                      b) Rs. 1,600  
 c) Rs. 1,650                      d) Rs. 1,550  
 e) None of these
398. A boat can be rowed 9 km upstream or 18 km downstream in a period of 3 hours. What is the speed of the boat in still water in km/hr?  
 a) 1.5                                b) 3  
 c) 4.5                                d) 6  
 e) None of these
399. Find the missing number: 1, 4, 7, 10.....  
 a) 13                                 b) 12  
 c) 14                                 d) 17  
 e) None of these
400. The H.C.F of two numbers is 11 and their L.C.M. is 7700. If one of the number is 275, the other is  
 a) 279                                b) 283  
 c) 308                                d) 318  
 e) None of these
401. Simplify:  $\frac{0.46 - 0.046}{0.046 \div 4.6}$   
 a) 0.414                            b) 4.14  
 c) 41.4                              d) 4.41  
 e) None of these
402.  $\frac{(7.59)^2 - (5.23)^2}{3 - 0.64} = ?$   
 a) 12.28                            b) 12.82  
 c) 18.12                            d) 18.21  
 e) None of these
403.  $\sqrt{\frac{0.361}{0.00169}}$  is equal to  
 a)  $\frac{19}{30}$                                 b)  $\frac{1.9}{3}$   
 c)  $\frac{19}{13}$                               d)  $\frac{190}{13}$   
 e) None of these

404. If 10% of x = 20% of y, then x : y = ?  
 a) 1 : 2                                b) 2 : 1  
 c) 2 : 3                                d) 3 : 2  
 e) None of these
405. The average of first 50 natural numbers is  
 a) 12.25                              b) 21.25  
 c) 25                                 d) 25.50  
 e) None of these
406. 40 is what percent of 1200?  
 a) 3                                      b)  $3\frac{1}{3}$   
 c)  $6\frac{2}{3}$                                  d) 6  
 e) None of these
407. The ratio of two numbers is 3 : 7. If 12 is subtracted from each, then the ratio becomes 9 : 37. The second number is  
 a) 42                                 b) 49  
 c) 56                                 d) 63  
 e) None of these
408. Which number would come in the place of question mark (?) in the following number series ?  
 2, 3, 10, 39, 172, 885, ?  
 a) 3546                                b) 5346  
 c) 5446                                d) 5356  
 e) None of these
409. The monthly salary of a person gets increased by 5%, thereby becoming Rs.15120 per annum. What was his earlier salary per month?  
 a) Rs.1440                            b) Rs.1200  
 c) Rs.1320                            d) Rs.1240  
 e) None of these
410. If A : B :: 3 : 4, B : C :: 5 : 9, C : D :: 3 : 5. A : D = ?  
 a) 2 : 3                                b) 1 : 2  
 c) 1 : 4                                d) 4 : 5  
 e) None of these
411. The sum of the digits of a two - digit number is 12. If the digits are interchanged, the number reduces to its four-seventh. What is the number ?  
 a) 48                                 b) 84  
 c) 93                                 d) 39  
 e) None of these

412. An increase in the cost price of an article by 22% leads to the value of Rs.6. What was the original cost price of the article ?
- a) Rs.40                      b) Rs.45  
c) Rs.50                      d) Rs.55  
e) None of these
413. Three persons A, B and C together contribute Rs.75000 for the business in partnership. If "A" contributes Rs.6000 more than B while "B" contributes Rs.3000 more than C, what would be the share of "A" in the overall profit of Rs.25000 ?
- a) Rs.10000                      b) Rs.6000  
c) Rs.12000                      d) Rs.9000  
e) None of these
414. If 39 men can complete the work in 14 days, how many men will be required to complete the same work in 6 days ?
- a) 84                              b) 78  
c) 70                              d) 91  
e) None of these
415. Which of the following fractions are in descending order of the values ?
- a)  $\frac{5}{8}, \frac{2}{3}, \frac{11}{14}$                       b)  $\frac{11}{14}, \frac{2}{3}, \frac{5}{8}$   
c)  $\frac{2}{3}, \frac{5}{8}, \frac{11}{14}$                       d)  $\frac{11}{14}, \frac{5}{8}, \frac{2}{3}$   
e) None of these
416. What is the perimeter of the semi-circle of radius 17.5 cms. ?
- a) 72.5 cms.                      b) 55 cms.  
c) 90 cms.                        d) 110 cms.  
e) None of these
417. Even after allowing a discount of 20% on the marked price, a trader earns 20% profit. By what per cent did the marked price been hiked by above the cost price ?
- a) 40%                              b) 50%  
c) 44%                              d) 46%  
e) None of these
418. Simplify :  $1\frac{7}{9} \times \frac{9}{20} + 2\frac{5}{8} \times 1\frac{1}{15}$
- a)  $\frac{5}{18}$                                   b)  $\frac{18}{5}$   
c)  $\frac{2}{5}$                                   d)  $\frac{5}{2}$   
e) None of these

419. Divide:  $3\frac{12}{17} \div 1\frac{11}{34}$

- a) 14                                  b)  $\frac{8}{5}$   
c)  $2\frac{4}{5}$                               d)  $4\frac{2}{5}$   
e) None of these

420. Determine the value:  $20 \div (2 + 5 - 3)$

- a) 6                                      b) 5  
c) 4                                      d) 3  
e) None of these

421. If a car is running at a speed of 60 km per hour, how much time will it take to reach a destination which is 72 km from the starting point.

- a) 1 hour 20 min  
b) 45 min  
c) 1 hour 45 min  
d) 1 hour 2 min  
e) None of these

422. What distance will a person travel in 4 hours if he maintains a speed of 15 m/sec?

- a) 600 km                              b) 160 km  
c) 216 km                              d) 260 km  
e) None of these

423. What percent is 22 of 40?

- a) 40                                      b) 44  
c) 45                                      d) 55  
e) None of these

424.  $\frac{6}{18} \div ? = 18$

- a) 54                                      b)  $\frac{1}{54}$   
c)  $\frac{1}{36}$                                       d) 36  
e) None of these

425. Find the square root:  $\sqrt{4562}$

- a) 66.52                                  b) 67.52  
c) 66.53                                  d) 67.54  
e) None of these

426. If 25% of a certain number of apples are rotten and the number of rotten apples are 700, find the total number of apples.

- a) 3000                                  b) 2900  
c) 2800                                  d) 2705  
e) None of these



427.  $(999^2 - 998^2) \div 20 \times 100 + 40 = ?$

- a) 1025                      b) 10025  
c) 100025                    d) 1250  
e) None of these

428. What is the least number between 50 and 100 which is fully divisible by 3, 6 and 15?

- a) 70                            b) 60  
c) 55                            d) 80  
e) None of these

429. A candidate scoring 20% marks in an exam fails by 30 marks and another candidate who scores 32% marks gets 42 marks more than those required to pass. Find the total maximum marks.

- a) 500                            b) 600  
c) 750                            d) 800  
e) None of these

430. The volume of a Right circular cone of height 12 cm and base radius 60 cm is

- a)  $12\pi$                             b)  $36\pi$   
c)  $72\pi$                             d)  $144\pi$   
e) None of these

431. If the cost price of 12 pens is equal to selling price of 10 pens, then find the gain or loss percentage of the selling price.

- a) 10% gain                      b) 20% loss  
c) 20% gain                      d) 15% loss  
e) None of these

432. A wheel makes 1000 revolutions in covering a distance of 83 km. The diameter of the wheel is

- a) 24 m                            b) 14 m  
c) 40 m                            d) 28 m  
e) None of these

433. A merchant marks his goods at Rs.300 and allows a discount of 25%. If he still gains 12.5%, then the cost of article is

- a) 200                            b) 220  
c) 240                            d) 250  
e) None of these

434. A, B, C hired a car for Rs. 520 and used it for 7, 8 and 11 hours respectively. Hire charges paid by "B" is

- a) Rs.140                        b) Rs.150  
c) Rs.160                        d) Rs.170  
e) None of these

435. By how much is  $\frac{4}{5}$  of 700 is greater than  $\frac{5}{7}$  of 550?

- a) 165                            b) 167  
c) 168                            d) 166  
e) None of these

436. The ratio between two numbers is 5:4. If 40% of the first number is 12, what is 50% of the second number?

- a) 12                              b) 24  
c) 40                              d) 28  
e) None of these

437.  $\frac{2}{5}$  of  $\frac{1}{4}$  of  $\frac{3}{7}$  of a number is 15. What is half of that number?

- a) 45                              b) 75  
c) 145                            d) 175  
e) None of these

438.  $1.542 \times 2408.69 + 1134.632 = ?$

- a) 4488                            b) 4846  
c) 4848                            d) 4858  
e) None of these

439.  $143\% \text{ of } 3015 + 1974 = 9500 - ?$

- a) 3214.55                        b) 3114.55  
c) 3014.55                        d) 3015.55  
e) None of these

440.  $9568 - 6548 - 1024 = ?$

- a) 2086                            b) 4044  
c) 2293                            d) 1996  
e) None of these

441.  $16\sqrt{49} + 1492 - 250.52 = ?$

- a) 1353                            b) 1463  
c) 1368                            d) 1343  
e) None of these

442.  $152\sqrt{7} + 795 = 8226 - 3400$

- a) 746                              b) 773.426  
c) 703.31                        d) 704.31  
e) None of these

443. If one-fifth of one-third of one-half of a number is 15, then find that number?

- a)  $\frac{17}{2}$                                 b)  $\frac{240}{9}$   
c) 540                              d) 450  
e) None of these

444. The sum of two numbers is twice their difference. If one of the number is 10 then the other number is
- a) 25                      b) 30  
c) 32                      d) 19  
e) None of these

445.  $10 \frac{5}{6} \div 91 = ?$

- a)  $\frac{42}{5}$                       b)  $\frac{5}{42}$   
c)  $\frac{15}{4}$                       d)  $\frac{4}{15}$   
e) None of these

446. Simplify:  $\frac{1}{2 + \frac{1}{3 + \frac{1}{1 + \frac{1}{4}}}}$

- a)  $\frac{12}{7}$                       b)  $\frac{43}{19}$   
c)  $\frac{7}{12}$                       d)  $\frac{19}{43}$   
e) None of these

447. Find the value of  $\frac{\sqrt{(\sqrt{5}+1)^2}}{5-1}$

a) 36                      b) 6  
c) 1.6                      d) 6.1  
e) None of these

448. If  $x = 12, y = 4$ , then find the value of  $(x + y)^{xy}$
- a) 48                      b) 64  
c) 496                      d) 4096  
e) None of these

449. Find the three numbers in the ratio of 1:2:3 so that the sum of their square is equal to 504.
- a) 8 : 16 : 24                      b) 6 : 12 : 24  
c) 6 : 12 : 18                      d) 4 : 8 : 12  
e) None of these

450. If 192 mangoes can be bought for Rs. 15, how many mangoes can be bought for Rs. 5?
- a) 65                      b) 75  
c) 62                      d) 64  
e) None of these

451. A man invests  $12\frac{1}{2}\%$  of his salary in a business. If his annual salary is Rs. 50,128, how much does he invest per annum?
- a) Rs. 4172  
b) Rs. 2426.50  
c) Rs. 6266  
d) Rs. 5292  
e) None of these

452. The average age of 30 boys of a class is equal to 14 years. When the age of the class teacher is included, the average becomes 15 years. Find the age of the class teacher?
- a) 45                      b) 25  
c) 48                      d) 52  
e) None of these

453. At what rate of compound interest per annum will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?
- a) 4%                      b) 6%  
c) 7.5%                      d) 5%  
e) None of these

454. The ratio of Vimal's age and Amala's age is in the ratio 3:5 and the sum of their age is 80 years. The ratio of their ages after 10 years will be \_\_\_\_
- a) 2 : 3                      b) 1 : 3  
c) 3 : 5                      d) 2 : 5  
e) None of these

455. In an examination 1100 boys and 900 girls appeared. 50% of the boys and 40% of the girls passed the exams. The percentage of candidates failed is \_\_\_\_
- a) 54.5                      b) 45.4  
c) 75.4                      d) 44.5  
e) None of these

456. Find the value of square root if  $\frac{392}{\sqrt{?}} = 28$
- a) 24                      b) 48  
c) 144                      d) 196  
e) None of these

457. The greatest possible length which can be used to measure exactly the lengths of 4 m, 95 cm, 9 m & 16 m 65 cm is
- a) 45 cm                      b) 25 cm  
c) 35 cm                      d) 15 cm  
e) None of these