

615. A sum of Rs. 500/- was lent for two years at 2% compound interest. The interest for two years will be
- a) Rs. 20                      b) Rs. 25  
c) Rs. 50.20                 d) Rs. 20.20  
e) None of these
616. A tree of height 21 m on a road side broke at a certain height and it fell in such a way that its top touched the other edge of the road. If the breadth of the road be 12m then the height at which it broke was
- a) 12 m                         b) 6 m  
c) 9 m                          d) 7.07 m  
e) None of these
617.  $\frac{9}{16}$  of a number is 51 greater than 50% of the number. Then, that number is
- a) 832                         b) 704  
c) 960                         d) 816  
e) None of these
618. A circular path runs around a circular field. The outer perimeter is 66 m and the inner perimeter is 22m less than the outer perimeter. If so, the area of the path is
- a) 154 sq.m.                 b) 346.5 sq.m.  
c) 192.5 sq.m.             d) 196 sq.m.  
e) None of these
619. A circular string of diameter  $11\frac{5}{11}$  cm. is bent into a form of semi-circle. The radius of the semi-circle will be
- a)  $5\frac{9}{11}$  cm.                    b) 7 cm.  
c) 3.5 cm.                    d)  $4\frac{2}{11}$  cm.  
e) None of these
620. Cost of 2 articles are in ratio 3:2. On the first there is 40% loss and on the second 30% gain. What is overall percentage of loss?
- a) 12%                         b) 30%  
c) 40%                         d) 10%  
e) None of these
621. 280 students appeared for an interview, and 50% of girls and  $6\frac{1}{4}\%$  of boys were declared successful. If such students are 25% on the whole, how many girls and boys appeared for the interview?
- a) 150 girls; 200 boys  
b) 120 girls; 180 boys  
c) 120 girls; 160 boys

- d) 100 girls; 120 boys  
e) None of these
622.  $\sqrt{12321} = ?$
- a) 221                         b) 211  
c) 121                         d) 111  
e) None of these
623.  $\frac{8}{\sqrt{625}} \times \frac{50}{\sqrt{256}} = ?$
- a) 0                             b) 1  
c) 2                             d) 40  
e) None of these
624. To a certain number 6 is added. The sum is multiplied by 6 and the product is divided by 13. 7 is subtracted from the quotient. If the remainder be 5, the number is
- a) 30                            b) 35  
c) 20                            d) 15  
e) None of these
625. A grocer mixes two varieties of coffee seeds, the cost prices of which are Rs. 12.50 and Rs.8 per kg. respectively. He gains 20% by selling a kg. of the mixture at Rs.12/-. The proportion in which he has mixed the two varieties is
- a) 2:3                         b) 3:4  
c) 4:5                         d) 4:3  
e) None of these
626. A man allocated half of his wealth to his wife, four-fifth of the remaining to his son, two-thirds of the remaining to his daughter and the remaining for an endowment. If the endowment received from him was Rs.1000 in all, his wealth was
- a) Rs. 50,000                 b) Rs. 30,000  
c) Rs. 1 lakh                 d) Rs. 10,000  
e) None of these
627. The total salary drawn by 3 watchmen, A, B and C is Rs. 1720. They spend 70%, 60% and 50% respectively from their salaries. If the balances with them are in Ratio 1:2:3, what is the salary of each?
- a) A - Rs. 300; B - Rs. 500; C - Rs. 700  
b) A - Rs. 200; B - Rs. 300; C - Rs. 650  
c) A - Rs. 100; B - Rs. 300; C - Rs. 600  
d) A - Rs. 400; B - Rs. 600; C - Rs. 720  
e) None of these

628. What is the average of the first five odd natural numbers?
- a) 12                      b) 13  
c) 5                         d) 10  
e) None of these
629. The average age of a class of 30 students is 18; when the teacher is included the average age becomes 19. What is the age of the teacher?
- a) 20 years                b) 30 years  
c) 40 years                d) 49 years  
e) None of these
630. Last year the average salary of 24 employees in a factory was Rs. 800. This year 10 of them got promoted and their salary increased at an average of Rs. 24. What is the average of all the employees now?
- a) Rs. 810                b) Rs. 500  
c) Rs. 700                d) Rs. 600  
e) None of these
631. The value of  $\sqrt{(65)^2 - (16)^2}$
- a) 63                        b) 62  
c) 60                        d) 65  
e) None of these
632. 25m/sec. is equivalent to a speed of
- a) 75 km/hr                b) 80 km/hr  
c) 90 km/hr                d) 100 km/hr  
e) None of these
633. The square root of  $0.0676 \times 0.04$  is
- a) 52                        b) 0.52  
c) 0.052                 d) 5.2  
e) None of these
634. A train travels from one station X to another station Y at the rate of 20 km/hr and returns at the rate of 30 km/hr. The average speed of the total journey is
- a) 25 km/hr                b) 24 km/hr  
c) 35 km/hr                d) 40 km/hr  
e) None of these
635. A sum of money is divided amongst A, B and C in the ratio of  $\frac{1}{2}$ ,  $\frac{1}{3}$  and  $\frac{1}{4}$ . A gets Rs. 400 more than B. What is the total amount?
- a) Rs. 1560                b) Rs. 1870  
c) Rs. 2700                d) Rs. 2600  
e) None of these

636. Simplification of  $\left(\sqrt{3} - \frac{1}{\sqrt{3}}\right)^2$  is

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

637. What is the radius of a circle of area 616 cm<sup>2</sup>?

- a) 16 cm                    b) 12 cm  
c) 14 cm                    d) 13 cm  
e) None of these

638. Water boils at 212°F or 100°C and melts at 32°F or 0°C. If the temperature of a particular day is 35°C, it is equivalent to

- a) 95°F                    b) 85°F  
c) 99°F                    d) 90°F  
e) None of these

639. 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

640.  $\frac{(7.59)^2 - (5.23)^2}{3 - 0.64} = ?$

- a) 12.28                    b) 12.82  
c) 18.12                    d) 18.21  
e) None of these

641.  $\sqrt{\frac{0.361}{0.00169}}$  is equal to

- a)  $\frac{19}{30}$                         b)  $\frac{1.9}{3}$   
c)  $\frac{19}{13}$                         d)  $\frac{190}{13}$   
e) None of these

642. The least number which when divided by 5, 6, 7 or 8 leaves the remainder 3 in each case, but when divided by 9 leaves no remainder, is

- a) 1677  
b) 1683  
c) 1697  
d) 1703  
e) None of these

643. Sixteen men can do a piece of work in 18 days. In how many days will 36 men complete the same work?
- a) 4 days                      b) 6 days  
c) 8 days                      d) 9 days  
e) None of these
644. 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
645. How much is  $1/2$  of  $x/2$ ?
- a)  $x$                                       b)  $\frac{1}{x}$   
c)  $\frac{1}{4}$                                       d)  $\frac{x}{4}$   
e) None of these
646. Simplify  $\frac{0.7 \times 0.7 \times 0.7 - 0.2 \times 0.2 \times 0.2}{0.7 \times 0.7 + 0.2 \times 0.2 + 0.2 \times 0.7}$
- a) 0.7                                      b) 0.2  
c) 0.5                                      d) 0.3  
e) None of these
647. A sum of money at simple interest amounts to Rs. 2,800 in 2 years and Rs.3,250 in 5 years. Find the sum and the rate of interest.
- a) Rs.2,500 and 6%  
b) Rs.2,000 and 5%  
c) Rs.1,000 and 10%  
d) Rs.3,000 and 15%  
e) None of these
648. In a book on arithmetic an example was printed thus: Add  $\frac{1}{14\frac{2}{3}}, \frac{1}{19\frac{1}{4}}, \frac{1}{?}, \frac{1}{13\frac{3}{4}}$  together, the denominator of the fraction being left out. The answer given at the end of the book to this question was  $11/28$ . Find the missing denominator.
- a) 273                                      b) 5  
c) 7    d) 421  
e) None of these
649. The area of a square is 225 square metres. Then the perimeter of the square is
- a) 50    b) 15  
c)  $15\sqrt{2}$                                       d) 60  
e) None of these

650. 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
651. A farmer took a loan at 12% p.a. at Simple Interest. 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
652. If a sum of money placed at Compound Interest doubles itself in 5 years, then the same amount of money will be 8 times of itself in
- a) 10 years                          b) 7 years  
c) 25 years                          d) 15 years  
e) None of these
653. Supply the missing figure:
- $$\frac{5}{10} \times \frac{8}{7} \times \frac{100}{50} \times \frac{35}{40} \times \frac{?}{16} = \frac{1}{8}$$
- a) 2    b) 4  
c) 8    d) 16  
e) None of these
654. A 100 metre long train crosses a pole in 8 seconds. What is its speed in kilometres per hour?
- a) 80    b) 36  
c) 45  
d) cannot be determined  
e) None of these
655. If  $x$  men can do a piece of work in 8 days and  $x+4$  men can do the same work in 6 days then  $x$  is equal to
- a) 10    b) 6  
c) 12    d) 24  
e) None of these
656. A mixture of 40 litres of milk and water contain 10% water. How much water must be added to make water 20% in the new mixture?
- a) 10 litres                          b) 7 litres  
c) 5 litres                                  d) 3 litres  
e) None of these

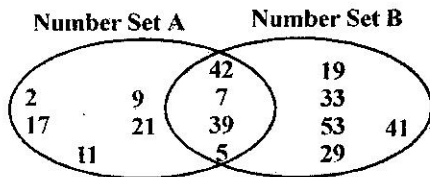


657. The sale price of an article including taxes is Rs. 616. The rate of sales tax is 10%. If the shop keeper has made a profit of 12%, find the cost price
- a) 500                      b) 450  
c) 600                      d) 550  
e) None of these
658. In a class  $\frac{3}{5}$  of the children are girls and the rest are boys. If  $\frac{2}{9}$  of the girls and  $\frac{1}{4}$  of the boys are absent, what fraction of the class is present?
- a)  $\frac{6}{45}$                       b)  $\frac{16}{49}$   
c)  $\frac{23}{27}$                       d)  $\frac{23}{30}$   
e) None of these
659. The unit sales price of a certain article is increased by 25%. What per cent of the new price is the original price ?
- a) 25                          b) 90  
c) 100                        d) 80  
e) None of these
660. The sum of three numbers is 49. If the ratio of first number to the second one is 2 : 3 and the ratio of the second number to the third one is 5 : 8, what is the second number ?
- a) 10                          b) 15  
c) 18                          d) 24  
e) None of these
661. The age of father today is twice that of his son. However, ten years hence, the age of the son will be four-seventh of that of his father. What is the present age of father ?
- a) 40 years                      b) 50 years  
c) 60 years                      d) 70 years  
e) None of these
662. The cost of one chair and three tables together is Rs.306, while that of eight chairs and two tables together is Rs.358. What is the cost of one chair ?
- a) Rs.18                      b) Rs.45  
c) Rs.28                      d) Rs.21  
e) None of these
663. A father can complete a piece of work in 30 hours. He and his son together can finish the same in 20 hours. In what time would the son complete the work alone ?
- a) 60 hours                      b) 50 hours  
c) 25 hours                      d) 10 hours  
e) None of these

664. A rectangular playground measures 120 metre (length) x 119 metre (breadth). How long would a person take to travel across its opposite corners diagonally if he travels at the speed of 1 m/sec ?
- a) 3 minutes 13 seconds  
b) 2 minutes 27 seconds  
c) 2 minutes 49 seconds  
d) 2 minutes 38 seconds  
e) None of these
665. A sum of Rs.12500 amounts to Rs. 15500 in four years at simple interest. What must be the rate of interest ?
- a) 3% p.a.                      b) 4% p.a.  
c) 5% p.a.                      d) 6% p.a.  
e) None of these
666. The three sides of a triangle are 3 cm, 4 cm and 5 cm. What would be its area ?
- a)  $6 \text{ cm}^2$                       b)  $15 \text{ cm}^2$   
c)  $20 \text{ cm}^2$                       d)  $12 \text{ cm}^2$   
e) None of these
667. The sum and the difference of two positive numbers are in the ratio 9 : 7. If the smaller number is one, what is the larger number ?
- a) 12                          b) 9  
c) 18                          d) 8  
e) None of these
668. A boat goes downstream 60 kms in 5 hours and returns by taking one hour longer. What must be the speed of the current ?
- a) 1 km/hr  
b) 2 km/hr  
c) 3 km/hr  
d) 4 km/hr  
e) None of these
669. Evaluate (up to four decimal places)
- $$\left[ 1 + \frac{1}{1 \times 2} + \frac{1}{1 \times 2 \times 4} + \frac{1}{1 \times 2 \times 4 \times 8} + \frac{1}{1 \times 2 \times 4 \times 8 \times 16} \right]$$
- a) 1.6414                      b) 1.6415  
c) 1.6416                      d) 1.6428  
e) None of these
670.  $(0.\overline{3467} + 0.\overline{1333})$  is equal to
- a) 0.48  
b)  $0.\overline{4801}$   
c)  $0.\overline{48}$   
d)  $0.\overline{48}$   
e) None of these

671. The breadth of a rectangular plot is 40% of its length. If the area of the plot is 250 sq.m. What is the perimeter of the plot?
- a) 60 metres                      b) 75 metres  
c) 90 metres                      d) 70 metres  
e) None of these
672. How many numbers between 200 and 600 are divisible by 4, 5 and 6 ?
- a) 5                                      b) 6  
c) 7                                      d) 8  
e) None of these

*Directions (Qns. 673 & 679): Study the following diagram carefully and answer the questions given below.*

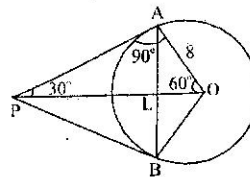


673. What is the total of the numbers which are exclusively in Set A?
- a) 60                                      b) 65  
c) 102                                    d) 99  
e) None of these
674. What is the difference between the total of all numbers in Set B and the numbers which are exclusively in Set B?
- a) 82                                      b) 268  
c) 33                                      d) 86  
e) None of these
675.  $\sqrt[3]{\frac{1}{8} \times \frac{125}{64}} = ?$
- a)  $\frac{5}{8}$                                       b)  $\frac{372}{512}$   
c)  $2\frac{1}{2}$                                     d)  $15\frac{5}{8}$   
e) None of these
676. Which one number can replace both question marks?  $\frac{8}{?} = \frac{?}{12\frac{1}{2}}$
- a)  $1\frac{1}{2}$                                       b) 4  
c) 64                                      d) 10  
e) None of these

677. The sum of money at compound interest doubles itself in 5 years. It will amount to eight times itself at the same rate of interest in
- a) 10 years  
b) 15 years  
c) 7 years  
d) 20 years  
e) None of these
678. Sum of squares of 2 numbers is 145. If the square root of one number is 3, then find the square of the other number.
- a) 136                                      b) 9  
c) 64                                      d) 8  
e) None of these

679.  $\frac{4335}{4(?)24} + 1\frac{7}{8} = \frac{289}{528}$

- a) 3                                      b) 2  
c) 1                                      d) 5  
e) None of these
680. Mean of eight numbers is 38.4 and the mean of seven of them is 39.2. What is the eighth number?
- a) 34.8                                    b) 32.8  
c) 0.8                                    d) 38.4  
e) None of these
681. The product of three consecutive even numbers when divided by 8 is 720. The product of their square roots is
- a) 120                                    b)  $24\sqrt{10}$   
c)  $12\sqrt{10}$                               d)  $6\sqrt{12}$   
e) None of these
682. In the adjoining figure PA and PB are tangents drawn to a circle whose centre is at O and whose radius is 8 cm. If  $\angle APO = 30^\circ$ , then area of  $\triangle AOB$  is



- a)  $12\sqrt{3}$                                     b)  $8\sqrt{3}$   
c)  $16\sqrt{3}$                                 d)  $4\sqrt{3}$   
e) None of these

683.  $\frac{24.23 \times 1.423 \times 34.21}{521.3 \times 413.32 \times 2.53}$  is the same as
- a)  $\frac{242.3 \times 142.3 \times 3421}{5213 \times 4133.2 \times 2.52}$   
 b)  $\frac{2423 \times 1423 \times 3421}{5213 \times 41332 \times 253}$   
 c)  $\frac{2.423 \times 14.23 \times 342.1}{5213 \times 4132.2 \times 253}$   
 d)  $\frac{2.423 \times 1.423 \times 3.421}{5213 \times 4132.2 \times 2.53}$   
 e) None of these
684. By which number should 1497375 be multiplied to make it a perfect cube?  
 a) 3                                      b) 9  
 c) 5                                      d) 4  
 e) None of these
685. A shop-keeper allows a discount of 10% on a watch and still makes a profit of 12%. If the cost price of the watch be Rs. 450, what is its marked price?  
 a) Rs. 540                              b) 520  
 c) Rs. 560                              d) 90  
 e) None of these
686. What is the total surface of a right cone of height 14 cm and a circular base of radius 7 cm?  
 a) 462 cm<sup>2</sup>  
 b) 344.35cm<sup>2</sup>  
 c) 498.35cm<sup>2</sup>  
 d) 444.6cm<sup>2</sup>  
 e) None of these
687. The sum of a number and its reciprocal is one-eighth of 34. What is the product of the number and its square root?  
 a) 8                                      b) 32  
 c) 27                                      d) 34  
 e) None of these
688. The base of a solid cylinder of height 10 cm is a semi-circle of radius 7 cm. Its total surface is ( $\pi = 22/7$ )  
 a) 176 cm<sup>2</sup>                              b) 514 cm<sup>2</sup>  
 c) 154 cm<sup>2</sup>                              d) 170 cm<sup>2</sup>  
 e) None of these
689. 70% of 280 is the same as  
 a) 35% of 140                              b) 7% of 28  
 c) 40% of 490                              d) 40% of 160  
 e) None of these
690. If  $185 \times 28 = 5180$ ,  $51.8 \div 18.5$  is equal to  
 a) 2.8  
 b) 280  
 c) 28  
 d) 58  
 e) None of these
691. By selling a transistor for Rs. 572 a shopkeeper earns a profit equivalent to 30% of the cost price of the transistor. What is the cost price of the transistor?  
 a) Rs. 400                              b) Rs. 340  
 c) Rs. 440                              d) Rs. 540  
 e) None of these
692. The sum of two numbers is  $28/25$  of the first number. The second number is . . . . . of the first  
 a) 12%                                      b) 16%  
 c) 14%                                      d) 12.5%  
 e) None of these
693. The value of  $\frac{(67.542)^2 - (32.458)^2}{75.458 - 40.374}$  is  
 a) 10                                      b) 1  
 c) 100                                      d) -1  
 e) None of these
694. Find the rate of Compound Interest at which Rs. 1000 becomes Rs. 5000 in 4 years.  
 a) 10%                                      b) 15%  
 c) 50%                                      d) 30%  
 e) None of these
695. In a town, the population of 2 groups in an year are 4500 and 7500. In the next 10 years, the population of the first group increased by 20% while the total population increased by 25%. Find the rate of increase in the 2nd group.  
 a) 26                                      b) 28  
 c) 27                                      d) 31  
 e) None of these
696. A train covers a certain distance in 40 minutes if it runs at a speed of 54 kmph on an average. The speed at which the train must run to reduce the time of journey to 30 minutes will be  
 a) 72  
 b) 54  
 c) 36  
 d) 18  
 e) None of these



697. Two trains each 220 m long, are travelling at 45 kmph and 54 kmph respectively in opposite directions. In what time would they cross each other? (one km/hr =  $\frac{5}{18}$  m/sec.)
- a) 15                      b) 17  
c) 99                      d) 16  
e) None of these
698. A person can swim downstream at the speed of 6 kmph and upstream at the speed of 2 kmph. What is the speed of swimming in still water?
- a) 10                      b) 5  
c) 4                      d) 2  
e) None of these
699. Two pipes A and B can fill a tank in 20 hrs and 30 hrs respectively. If both the pipes are opened simultaneously, how much time will be taken to fill the tank?
- a) 12                      b)  $\frac{1}{12}$   
c) 13                      d)  $\frac{1}{13}$   
e) None of these
700. Two taps A and B can fill a tank in 10 hrs and 12 hrs respectively. If both the taps are opened together, the tank will be full in
- a)  $5\frac{5}{11}$                       b)  $5\frac{3}{11}$   
c)  $5\frac{4}{11}$                       d)  $5\frac{5}{11}$   
e) None of these
701. Ram Yadav bought a computer at  $\frac{3}{5}$  of the selling price and sold it at 10% more than its Selling Price. Find his profit or loss percent
- a)  $\frac{100}{3}$                       b)  $\frac{200}{3}$   
c)  $\frac{250}{3}$                       d)  $\frac{201}{3}$   
e) None of these
702. Varun lost 20% by selling a T.V. set Rs. 8000. What percent will he gain by selling it at Rs. 8500?
- a) 10                      b) 15  
c) 12                      d) 13.7  
e) None of these
703. 12 men working 8 hours a day can complete

a task in 16 days. If the same task must be completed in 8 days, how many more people would be required if all of them work for 12 hours a day?

- a) 12                      b) 13  
c) 15                      d) 16  
e) None of these
704. A, B and C are employed to do a piece of work for Rs. 600. A and C are supposed to finish  $\frac{5}{6}$  of the work together. How much shall be paid to B?
- a) 100                      b) 110  
c) 75                      d) 65  
e) None of these
705. If 50% of a number is added to 50, the result is the number itself. Then the number is
- a) 50                      b) 200  
c) 150                      d) 100  
e) None of these
706.  $\frac{4}{5}$  of  $\frac{2}{7}$  of  $x = \frac{5}{6}$  of 20%. Then  $x =$
- a) 35                      b)  $\frac{48}{35}$   
c)  $\frac{35}{48}$                       d) 48  
e) None of these
707. If 60% of a certain number is 25.8, then find the number.
- a) 43                      b) 47  
c) 25                      d) 57  
e) None of these
708. A bag contains various coins of 50 paise, 25 paise, 20 paise and 10 paise in the ratio of 1 : 2 : 4 : 8 respectively. If the total amount in the bag is Rs. 52, how many coins of 20 paise does the bag have?
- a) 60                      b) 70  
c) 65                      d) 80  
e) None of these
709. If  $A : B = 3 : 4$ ,  $B : C = 2 : 3$  then  $A : C = ?$
- a)  $\frac{1}{2}$                       b)  $\frac{6}{3}$   
c)  $\frac{1}{3}$                       d)  $\frac{2}{3}$   
e) None of these

710. Which of the following is the smallest ratio?  
 $10 : 5$ ,  $10 : 25$ ,  $1 : 3$ ,  $19 : 25$
- a)  $\frac{1}{3}$                       b)  $\frac{3}{1}$   
c)  $\frac{1}{4}$                       d)  $\frac{4}{1}$   
e) None of these
711. The area of a circle is 154 sq. cm. Its circumference is
- a) 22                      b) 35  
c) 44                      d) 28  
e) None of these
712. Find the volume and surface area of a sphere of radius 14 cm.
- a) 2364                      b) 2564  
c) 2464                      d) 2400  
e) None of these
713. How many days are there from 5th January 1995 to 18th March, 1995?
- a) 8                      b) 73  
c) 63                      d) 78  
e) None of these
714. Today is Sunday. After 32 days it will be
- a) Monday  
b) Thursday  
c) Wednesday  
d) Saturday  
e) None of these
715. In  $\triangle ABC$   $\angle C = 90^\circ$ .  $AC = 15$  cm;  $BC = 8$  cm, find  $\sec A$ .
- a)  $\frac{5}{17}$                       b)  $\frac{17}{15}$   
c)  $\frac{15}{17}$                       d)  $\frac{17}{5}$   
e) None of these
716. Find the H.C.F of 3.9, 6.6, 8.22
- a) 3                      b) 0.3  
c) 0.6                      d) 1.2  
e) None of these
717. The LCM of two numbers is 864 and their HCF is 144. If one of the numbers is 288, the other number is
- a) 576                      b) 1296  
c) 432                      d) 144  
e) None of these

718. In a school 70% of the students are girls. The number of boys are 510. Then the total number of students in the school is
- a) 850                      b) 1700  
c) 1830                      d) 1900  
e) None of these
719. If one hundred rupees are distributed among two students in the ratio 11:9, what would be the difference in their shares ?
- a) Rs.10                      b) Rs.5  
c) Rs.8                      d) Rs.20  
e) None of these
720. What should be added to the sum of 21,26,29 and 34 so that the resultant addition would be eight times the average of these four numbers ?
- a) 100                      b) 110  
c) 210                      d) 90  
e) None of these
721. What is the ratio of Rs.2 to 80 paise ?
- a) 5 : 2  
b) 5 : 2 rupees  
c) 5 : 2 paise  
d) 5 rupees : 2 paise  
e) None of these
722. A sum of Rs.13585 is to be distributed among three persons in the ratio of (5.5) : (2.75) : (2.2). What is the difference between the largest and the smallest share ?
- a) Rs.4000                      b) Rs.4500  
c) Rs.5000                      d) Rs.4290  
e) None of these
723. When certain quantity of sugar is sold at Rs.11 per kg, the gain is 10%. If the total gain is Rs.50, what is the quantity of sugar sold ?
- a) 100 kg                      b) 60 kg  
c) 50 kg                      d) 80 kg  
e) None of these
724. In a partnership business, "A" has invested Rs.3500 while "B" has invested a certain amount. If out of the overall profit of Rs.480, B's share is Rs.270, what is the amount invested by B ?
- a) Rs.4000                      b) Rs.4500  
c) Rs.5000                      d) Rs.6000  
e) None of these



725. Shobha can complete a piece of work in 4 hours while Shiva can complete the same in 6 hours. If Shobha and Shiva work together, how long will they take to complete the work?
- a) 2 hours                      b) 1.5 hours  
c) 2.4 hours                    d) 3.6 hours  
e) None of these
726. A man drives his bicycle to office at a steady speed. If he were to pedal 2 km/hr faster, he would be able to cover the distance of 5 kms five minutes early. What is his usual speed of travel ?
- a) 8 km/hr                      b) 6 km/hr  
c) 12 km/hr                    d) 10 km/hr  
e) None of these
727. If 280 is divided in two parts such that, when 15% of the first part when added to 25% of the other yields 54, what would be the difference in two parts ?
- a) 40                              b) 50  
c) 60                              d) 80  
e) None of these
728. The length of a rectangle is 2 cm. lesser than three times its breadth. If the perimeter of the rectangle is 36 cm, what would be its area ?
- a) 52 sq.cm.                    b) 65 sq.cm.  
c) 40 sq.cm.                    d) 80 sq.cm.  
e) None of these
729. Srimathy borrowed a sum for 3 years on Simple Interest at 10%. The total interest paid was Rs. 360. Find the Principal.
- a) Rs. 1000                      b) Rs. 1100  
c) Rs. 1500                      d) Rs. 1200  
e) None of these
730. Find the sum which amounts to Rs. 8,820 at 5% Compound Interest in 2 years.
- a) Rs. 8035                      b) Rs. 8535  
c) Rs. 8355                      d) Rs. 8000  
e) None of these
731. Divide Rs. 7500 into 2 parts such that the Simple Interest on one part for 2 years at 5% is the same on other part for 3 years at 6% per annum.
- a) 4020                            b) 4821.45  
c) 4821.42                      d) 4821  
e) None of these
732. Walking at the rate of 3 kmph a man covers a

certain distance in 3 hrs 20 minutes. Running at a speed of 15 kmph that man will cover the same distance in

- a) 20                              b) 30  
c) 40                              d) 50  
e) None of these

733. A train starts from station X at the rate of 80 kmph and reaches station Y in 48 minutes. If the speed is reduced by 8 kmph, how much more time will the train take to return from station Y to station X ?

- a) 2 hrs. 15 min.  
b) 2 hrs. 10 min.  
c) 3 hrs. 20 min.  
d) 5 hrs. 20 min.  
e) None of these

734. A train 100 m long is running at a speed of 77 kmph. The time in which it will pass a passedby walking 5 kmph in the same direction is

- a)  $\frac{5}{18}$                               b) 20  
c) 72                              d) 5

e) None of these

735. A man can row downstream at the rate of 15 km/hr and upstream at 10 km/hr. Find man's rate in still water and the rate of current?

- a) 2.5                              b) 3  
c) 3.5                              d) 6  
e) None of these

736. If two pipes function simultaneously the reservoir will be filled in 12 hrs. One pipe fills the reservoir 10 hrs faster than the other. How many hours it takes for the second pipe to fill the reservoir?

- a) 30                              b) 12  
c) 40                              d) 3  
e) None of these

737. If an article is sold at 10% gain, instead of 10% loss, the merchant would have got Rs. 25 more. Find the C.P.

- a) Rs. 150                        b) Rs. 175  
c) Rs. 125                        d) Rs. 180  
e) None of these

738. A and B can together finish a work in 40 days. They worked at it for 30 days and

then B left. The remaining work was done by A alone in 30 more days. A alone can finish the work in

- a) 110
- b) 30
- c) 120
- d) 115
- e) None of these

739. If 39% of a number is 998.40, what will be approximately 21% of that number ?

- a) 530
- b) 540
- c) 537
- d) 538
- e) None of these

740. If 280 is divided into two parts such that, when 15% of the first part is added to 25% of the other yields 54. What would be the difference in two parts?

- a) 30
- b) 40
- c) 45
- d) 60
- e) None of these

741. The sum of two numbers is 16 and the sum of their squares is 130. The numbers are

- a) (9, 7)
- b) (7, 11)
- c) (9, 11)
- d) (11, 10)
- e) None of these

742. Two numbers are in the ratio 9 : 8. If 8 is subtracted from both the numbers, the ratio becomes 8 : 7. What is the difference between the 2 numbers?

- a) 6
- b) 8
- c) 7
- d) 3
- e) None of these

743. The sum of 3 nos. is 200. The ratio of the 1st to the 2nd is 5 : 6 and that of the 2nd to the 3rd is 2 : 3. What is the difference between the largest and the smallest number?

- a) 10
- b) 30
- c) 40
- d) 37
- e) None of these

744. 800 ml of mixture contains milk and water in the ratio 5 : 3. How much more water is to be added to get a new mixture containing milk and water in the ratio 5 : 4?

- a) 100
- b) 150
- c) 175
- d) 200
- e) None of these

745. A broker purchased 100 shares of face value Rs. 10 at Rs. 12 from Rama and sold the

same at Rs. 16 to Seetha. If  $\frac{1}{2}\%$  is charged as brokerage then the broker's income is

- a) Rs. 80
- b) Rs. 28
- c) Rs. 120
- d) Rs. 70
- e) None of these

746. The circumference of a circle is 396 m; then its area (in sq.m) is

- a) 14274
- b) 12474
- c) 17241
- d) 14724
- e) None of these

747. A beam 10 m long, 50 cm wide, 2 m height is made up of iron which weighs 20 kg per cubic metre. The weight of the beam is

- a) 200 kg
- b) 100 kg
- c) 150 kg
- d) 175 kg
- e) None of these

748. Find out the wrong number in the series.

445, 221, 109, 46, 25, 11, 4

- a) 21
- b) 46
- c) 25
- d) 4
- e) None of these

749. The angle of depression of a point 100 m from the foot of a tree is  $60^\circ$ . How tall is the tree?

- a) 173.2
- b) 11.73
- c)  $117\sqrt{3}$
- d)  $100\sqrt{2}$
- e) None of these

750. The average age of a class of 27 students is 10 years. If the teacher's age is included, the average is increased by 1. What is the age of the teacher?

- a) 35 years
- b) 36 years
- c) 38 years
- d) 37 years
- e) None of these

751. If  $\frac{a}{b} = \frac{5}{8}$  then  $\frac{11}{14} + \frac{b-a}{b+a} = ?$

- a)  $\frac{180}{183}$
- b)  $\frac{185}{182}$
- c)  $\frac{182}{185}$
- d)  $1\frac{1}{182}$
- e) None of these

752.  $\log 6 = 0.7782$ ; then  $\log 216 = ?$