

- a) 2.7782 b) 1.5564
c) 1.3346 d) 2.3346
e) None of these
753. In a business A's capital of Rs.2000 remains for 8 months and B's capital of Rs. 3000 remains for 6 months. What is A's share in a profit of Rs. 850?
a) Rs. 400 b) Rs. 450
c) Rs. 350 d) Rs. 500
e) None of these
754. The sides of a rectangular plot are in the ratio 5:4 and its area is equal to 500 sq.m. The perimeter of the plot is:
a) 80 m. b) 100 m.
c) 90 m. d) 95 m.
e) None of these
755. The radius of a wheel is 21 cm. How many revolution will it make in travelling 924 metres? (use $\pi = \frac{22}{7}$)
a) 7 b) 11
c) 200 d) 700
e) None of these
756. The edges of a cuboid are in the ratio 1 : 2 : 3 and its surface area is 88 cm². The volume of the cuboid is:
a) 120 cm³ b) 64 cm³
c) 48 cm³ d) 24 cm³
e) None of these
757. A train is travelling at the rate of 45 km/hr. How many seconds, it will take to cover a distance of $\frac{4}{5}$ km?
a) 36 b) 64
c) 90 d) 120
e) None of these

Directions (Qns. 758-762): Find the value of question mark (?) in each question.

758. $? + \sqrt{196} = 32$
a) 324 b) 32
c) 289 d) 18
e) None of these
759. $3.03 \times 0.03 \times 0.3 = ?$
a) 0.2727 b) 0.00272
c) 0.02727 d) 3.0027
e) None of these

760. $\frac{3}{5} + 12\frac{2}{5} + 128\frac{1}{5} = ?$

- a) $114\frac{1}{5}$ b) $141\frac{1}{5}$
c) $141\frac{2}{5}$ d) $140\frac{1}{5}$
e) None of these

761. $7 + 777 + 7777 + 77777 = ?$

- a) 863388 b) 86383
c) 863383 d) 86338
e) None of these

762. $\frac{20.2 \times 0.002}{10} = ?$

- a) 0.040 b) 0.00404
c) 0.404 d) 0.44
e) None of these

763. If $\frac{1}{4}$ th of $\frac{1}{3}$ rd of a number is 16, then what is that number?

- a) 168 b) 192
c) 180 d) 256
e) None of these

764. Saroj purchased 5 scooters at the rate of Rs. 7,800 per scooter. He spent Rs. 1,000 for carting of this scooter. If he wants to earn 50 per cent profit on the money he spent, at what rate he should sell each scooter?

- a) Rs. 16,000 b) Rs. 20,000
c) Rs. 14,000 d) Rs. 12,000
e) None of these

765. A car which starts from airport reaches bus station after 45 minutes. Its average speed is 40 kilometres per hour. If its average speed is increased by 10 kilometres per hour, how much less time will that car take to cover the same distance?

- a) 19 minutes b) 10 minutes
c) 9 minutes d) 24 minutes
e) None of these

766. Ramesh sold his radio set taking 25% profit on its original value and he earned 20 rupees. What was the original value of that radio set?

- a) Rs. 60 b) Rs. 100
c) Rs. 80 d) Rs. 75
e) None of these

767. If $\frac{3}{4}$ th of $\frac{1}{5}$ th of $\frac{2}{3}$ rd of one number is 15,

then what is that number?

- a) 75 b) 125
c) 150 d) 300
e) None of these

768. A sum of Rs. 1550 is lent out into two parts. One at 8% and another one at 6%, if the total annual income is Rs. 106, the money lent at 8% is

- a) Rs. 850 b) Rs. 650
c) Rs. 720 d) Rs. 760
e) None of these

769. A train 108m long moving at a speed of 50 km/hr crosses a train 112m long coming from opposite direction in 6 seconds. The speed of the second train is

- a) 56 kmph b) 82 kmph
c) 68 kmph d) 74 kmph
e) None of these

770. The number of solid spheres each of diameter 3 cm that could be moulded to from a solid cylinder of height 54 cm and diameter 4 cm is

- a) 36 b) 48
c) 24 d) 32
e) None of these

771. The profit earned by selling an article for Rs. 900 is double the loss incurred when the same article is sold for Rs. 450. At what price should the article be sold to make 25% profit?

- a) Rs. 810 b) Rs. 750
c) Rs. 800 d) Data inadequate
e) None of these

772. An open box is made of wood 3 cm thick; its external dimensions are 1.46 m, 1.16 m and 8.3 dm. The cost of painting the inner surface of the box at 50 paise per 100 sq.cm is

- a) Rs. 277 b) Rs. 176.80
c) Rs. 216 d) Rs. 116
e) None of these

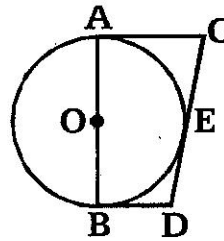
773. In a stream running at 2 kmph, a motor boat goes 6 km upstream and back again to the starting point in 33 minutes. What is the speed of the motor boat in still water?

- a) 20 kmph b) 18 kmph

c) 22 kmph d) 24 kmph

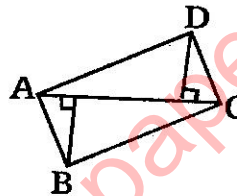
e) None of these

774. AB is a diameter of the circle with centre O. CD is a tangent to the circle. If AB = 3 cm and BD = 1.5 cm, what is the length of CD?



- a) 3 cm b) 5 cm
c) 4.5 cm d) 1.5 cm
e) None of these

775. Find the area of a parallelogram ABCD when the length of diagonal AC = 10 cm and perpendiculars drawn from vertices B and D on AC are 5 cm and 6 cm long.



- a) 60 sq.cm. b) 50 sq.cm.
c) 30 sq.cm. d) 55 sq.cm.
e) None of these

776. What is the value of $\frac{3.6 \times 49 \times 0.125}{2.5 \times 0.0006 \times 0.7} = ?$

- a) 2100 b) 21000
c) 210 d) 2162
e) None of these

777. The L.C.M. and H.C.F of 0.25, 0.005 and 12.5 are

- a) 0.25, 0.005 b) 12.5, 0.005
c) 12.5, 0.25 d) 0.005, 12.5
e) None of these

778. The average of 7, 9, 9, 7, 5, 3, 9 is

- a) 9 b) 5
c) 7 d) 8
e) None of these

Directions (Qns. 779-791): Find the value of

question mark (?) in each question.

779. ? - 14.95 - 319.2 = 51.73 - ?

- a) 194.92 b) 194.44
c) 192.94 d) 192.44
e) None of these

780. $6\frac{8}{11} \div \left(3\frac{4}{7} \times 9\frac{4}{5}\right) \div 5\frac{2}{7} = \frac{1}{?}$

- a) $\frac{2}{3}$ b) $\frac{2}{55}$
c) $26\frac{1}{2}$ d) $27\frac{1}{2}$
e) None of these

781. $\sqrt{\frac{409.948}{2.8}} = ?$

- a) 1.21 b) 12.1
c) 121 d) 0.121
e) None of these

782. $10\frac{6}{7} \div 8\frac{4}{9} \times 2\frac{2}{7} \div 5\frac{1}{4} = 3(?)^3$

- a) $\frac{7}{4}$ b) $\frac{3}{7}$
c) $\frac{16}{7}$ d) $\frac{4}{7}$
e) None of these

783. ?% of 36.8 = 13.248

- a) 42 b) 36
c) 38 d) 34
e) None of these

784. $1\frac{2}{9} - \frac{3}{7} + ? = 2\frac{3}{4} - 1\frac{2}{9} + \frac{3}{7}$

- a) $1\frac{77}{84}$ b) $\frac{241}{252}$
c) $1\frac{141}{252}$ d) $1\frac{41}{252}$
e) None of these

785. 3.701 - 0.15 - 1.008 - 0.05 = ?

- a) 2.483 b) 2.593
c) 2.493 d) 2.393
e) None of these

786. $\frac{4}{5}$ of $\frac{2}{7}$ of ? = $\frac{5}{6}$ of 20%

- a) $\frac{35}{48}$ b) $\frac{35}{4}$
c) $\frac{7}{48}$ d) $\frac{5}{48}$
e) None of these

787. $81^{0.25} \times 81^{1.25} \times 81^{0.50} = ?$

- a) 243 b) 2187
c) 6561 d) 729
e) None of these

788. $438 \times ? = \frac{705180}{14}$

- a) 116 b) 115
c) 105 d) 125
e) None of these

789. 40% of 6.5 + $\frac{2}{3}$ of 8.4 = ? - 5.6

- a) 12.6 b) 11.8
c) 14.2 d) 13.8
e) None of these

790. $\sqrt{?} + 48 = 1800 \div 25$

- a) 675 b) 576
c) 196 d) 234
e) None of these

791. 40% of 2400 + ?% of 600 = 50% of 3840

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

792. 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. 5000
c) Rs. 4000 d) Rs. 3000
e) None of these

793. An amount of money is to be distributed among P, Q and R in the ratio of 3 : 5 : 9 respectively. If the difference between Q and R's share is Rs. 1,200/-, what is the total share of P and Q together?

- a) Rs. 1200 b) Rs. 2700
c) Rs. 3000 d) Rs. 2400
e) None of these

794. The product of a number and its square root is 8. What is the number?
a) 4 b) 8
c) 9
d) cannot be determined
e) None of these
795. Anil spent 30% of his monthly salary on food, 20% on transport and saves half of the remaining. If he spends Rs. 800/- on transport what is his annual saving?
a) Rs. 1,000 b) Rs. 18,000
c) Rs. 2,000 d) Rs. 6,000
e) None of these
796. A 180 metre long train crosses a signal pole in 9 seconds. What is the speed of the train?
a) 60 kmph b) 72 kmph
c) 80 kmph d) 90 kmph
e) None of these
797. Pramod bought a bag for Rs. 1480 and sold it for Rs. 2072. What was his percentage profit?
a) 10% b) 20%
c) 40% d) 50%
e) None of these
798. At what rate of simple interest will Rs. 8000 fetch an interest of Rs. 2000 at the end of four years?
a) 8% b) 6%
c) $6\frac{1}{4}\%$ d) $13\frac{1}{4}\%$
e) None of these
799. A bag contains some one rupee, fifty paise and twenty-five paise coins whose total value is Rs. 93.75. If the ratio of the numbers of coins be 3 : 4 : 5, then the number of one rupee coins is
a) 45 b) 75
c) 30 d) 90
e) None of these
800. The simplified value of $\frac{1}{1 \div \frac{2}{3} \text{ of } \frac{3}{4}}$ is
a) $\frac{9}{8}$ b) $\frac{1}{2}$
c) 2 d) 1
e) None of these
801. A subscriber of telephone has to pay Rs. 200

- for the first 150 calls and Rs. 2 for each additional call. If the total amount in a bill is Rs. 298, then the number of calls is
a) 199 b) 249
c) 251 d) 299
e) None of these
802. P is greater than Q by 12, Q is greater than R by 12 and P : R = 8 : 5. Then R is
a) 30 b) 35
c) 40 d) 45
e) None of these
803. A rectangular garden, whose length is double its breadth, has an area of 1800 sq metres. Its length (in metres) is
a) 30 b) 90
c) 300 d) 60
e) None of these
804. The sum of the present ages of father and son is 80 years, Six years ago, the ratio of their ages was 25 : 9. The present age of father is
a) $58\frac{14}{17}$ years b) 50 years
c) 56 years d) 80 years
e) None of these
805. From a fixed location a ship runs towards east for 12 hours, then changes its course and runs towards south for 5 hours. If the speed of the ship is 10 km/hr throughout, then the straight distance of the final position of the ship from the starting position is
a) 120 km b) 130 km
c) 140 km d) 150 km
e) None of these
806. 30 men can do a work in 50 days. After 20 days 10 men leave the work. The whole work will be done in
a) $53\frac{1}{3}$ days b) 65 days
c) 45 days d) 60 days
e) None of these
807. A train passes a bridge of length 225 metres in 30 seconds and a station of length 350 metres in 40 seconds. The speed of the train in km/hour is
a) 40 b) 42
c) 45 d) 50
e) None of these
808. The sum of two numbers is 128 and their

quotient is 3. The difference of the number is

- a) 48 b) 32
c) 96 d) 64
e) None of these

809. The perimeter of a circular park is 440 metres. A circular path of 7m wide runs around outside the park. The area of the path

$(\pi = \frac{22}{7})$ in square metres is

- a) 2926 b) 3234
c) 154 d) 44
e) None of these

810. If 25 men, working 8 hours a day, earn Rs. 850, then 40 men working 6 hours a day will earn

- a) Rs. 1020 b) Rs. 980
c) Rs. 1090 d) Rs. 940
e) None of these

811. A, B, C enter into a partnership contributing Rs. 5000, Rs. 9000 and Rs. 16000 respectively. From a profit of Rs. 6300, the share of B is

- a) Rs. 1050 b) Rs. 1890
c) Rs. 3360 d) Rs. 700
e) None of these

812. 1 hectare is equal to

- a) 100 sq.m. b) 1000 sq.m.
c) 10000 sq.m. d) 100000 sq.m.
e) None of these

813. Simplify:

$$1\frac{1}{7} - \frac{2}{3} + \frac{\frac{2}{5}}{1 - \frac{1}{25}}$$
$$1 - \frac{1}{7} \text{ of } \left[\frac{1}{3} + \frac{\frac{2}{5}}{1 - \frac{2}{5}} \right]$$

- a) $\frac{25}{24}$ b) $\frac{42}{40}$
c) $\frac{20}{19}$ d) $\frac{76}{75}$
e) None of these

814. Find the smallest number that must be added to 803642 to obtain a multiple of 11.

- a) 7 b) 9
c) 5 d) 10
e) None of these

815. Reduce to an equivalent fraction with rational

denominator: $\frac{3\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}}$

- a) $6 + 2\sqrt{15}$ b) $12 + 3\sqrt{15}$
c) $9 + 2\sqrt{15}$ d) $7 + 4\sqrt{15}$
e) None of these

816. In a 1 km race, A beats B by 40 metres or 7 seconds. Find A's time over the course.

- a) 102 seconds
b) 94 seconds
c) 168 seconds
d) 148 seconds
e) None of these

817. 4 Pipes can fill a reservoir in 15, 20, 30 and 60 hrs respectively. The first was opened at 6 A.M., second at 7 A.M., the third at 8 A.M. and the fourth at 9 A.M. When will the reservoir be filled up?

- a) 1 p.m. b) 12 Noon
c) 1.30 p.m. d) 2 p.m.
e) None of these

818. The price of an item was first increased by 40% and then reduced by 20%. Compare the new price with the original price.

- a) Rs. 140 b) Rs. 100
c) Rs. 224 d) Rs. 112
e) None of these

819. A property depreciates every year at the rate of $6\frac{1}{4}\%$ on its value at the beginning of the year. If its value at the end of 3 years be Rs. 21093.75, find its value at the beginning.

- a) Rs. 25600 b) Rs. 22000
c) Rs. 23600 d) Rs. 24660
e) None of these

820. In a mixture of 60 litres, the ratio of milk and water is 2 : 1. If the ratio of milk and water is to be 1 : 2, find the quantity of water to be added.

- a) 50 litres b) 60 litres
c) 40 litres d) 55 litres
e) None of these

821. What is the smallest number which when increased by 3 is divisible by 27, 35, 25 and 21?

- a) 4722 b) 4132
c) 4522 d) 4622
e) None of these

822. The LCM of two numbers is 567 and their HCF is 9. If the difference between the two

numbers is 18, find the two numbers.

- a) 36 and 18 b) 78 and 60
c) 63 and 81 d) 52 and 34
e) None of these

823. If 2^{10} is approximately equal to 10^3 , find the approximate value of $\log_2 10$

- a) $\frac{10}{3}$ b) $\frac{12}{4}$
c) $\frac{20}{5}$ d) $\frac{15}{4}$
e) None of these

824. If x and y are two sets such that x has 20 elements, $x \cup y$ has 30 elements, $x \cap y$ has 5 elements; how many elements does y have?

- $n(x) + n(y) - n(x \cap y) = n(x \cup y)$
a) 25 b) 15
c) 60 d) 30
e) None of these

825. Find the value of

$$x^2 + \frac{1}{x^2}, x^4 + \frac{1}{x^4}, \text{ if } x + \frac{1}{x} = 4$$

- a) 194 b) 125
c) 174 d) 109
e) None of these

826. Multiply: $\frac{a^2 + a - 12}{a + 4}$ by $\frac{a + 3}{a^2 - 2a - 3}$

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

827. A man covers a distance of 15 km in 3 hours partly by walking and partly by running. If he walks at 3 km/hr and runs at 9 km/hr., find the distance he covers by running.

- a) 9 km/hr b) 11 km/hr
c) 18 km/hr d) 27 km/hr
e) None of these

828. Find the equation whose roots are the squares of the roots of $x^2 + x + 2 = 0$.

- a) $x^2 + 3x + 4 = 0$
b) $x^2 + 2x + 6 = 9$
c) $x^2 + 6x + 8 = 14$
d) $x + 4x - 5 = 0$
e) None of these

829. In a quadrilateral, the longer diagonal is 220 m. The perpendiculars from the opposite

vertices let fall upon the longer diagonal are 40.4 m and 50.8 m. Find the area of the field.

- a) 15422 m² b) 19032 m²
c) 10032 m² d) 10052 m²
e) None of these

830. Find the area of the largest circle that can be drawn in a square of area 196 sq. cm.

- a) 154 cm² b) 254 cm²
c) 144 cm² d) 184 cm²
e) None of these

831. The total surface area of a cube is 726 cm². Find its volume.

- a) 1331 cm³ b) 1044 cm³
c) 1288 cm³ d) 1353 cm³
e) None of these

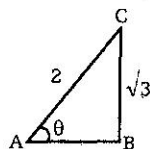
832. A rectangular strip 5 cm × 25 cm is rotated completely about the 25 cm side. Find the volume and the total surface area of the solid generated.

- a) 942.86 cm² b) 745.73 cm²
c) 988.46 cm² d) 899.72 cm²
e) None of these

833. If h is the height and α is semivertical angle of a cone, find its volume.

- a) $\frac{1}{3}\pi h^3 \tan^2 \alpha$ b) $\frac{1}{3}\pi h^2 \tan^3 \alpha$
c) $\frac{1}{3}\pi h \tan^2 \alpha$ d) $\frac{1}{3}\pi h \tan \alpha$
e) None of these

834. In the adjoining figure find (i) θ , (ii) $\tan \theta$ and (iii) $\cot \theta$



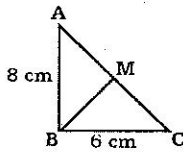
- a) $\frac{1}{3}$ b) $\frac{1}{\sqrt{3}}$
c) $\frac{2}{\sqrt{3}}$ d) $\frac{\sqrt{3}}{2}$
e) None of these

835. If $A + B = 180^\circ$ find $\sin^2 A - \sin^2 B$

- a) 0 b) 1
c) 2 d) 4
e) None of these

836. In the figure, BM is a median of $\triangle ABC$. Find

the length.



- a) 5 cm b) 16 cm
c) 12 cm d) 10 cm
e) None of these

837. If the bisector of an angle of a triangle bisects the opposite side, find the nature of the triangle.

- a) Isosceles
b) Scalene
c) Equilateral
d) Right angled isosceles
e) None of these

Directions (Qns. 838-842): Find the value of question mark (?) in each question.

838. $0.00116 \div ? = 0.012 \times 0.58$

- a) $2/5$ b) $1/7$
c) $1/5$ d) $1/6$
e) None of these

839. $63 + 27 \times 48 \div 45 - 30 \times 1.1 = ?$

- a) 56.8 b) 58.8
c) 68.8 d) 58.6
e) None of these

840. $345.709 - ? = 344.8892$

- a) 0.8198 b) 0.8298
c) 0.9198 d) 0.8188
e) None of these

841. $13\sqrt{7} + 21\% \text{ of } 350 = 346.5$

- a) 324 b) 361
c) 441 d) 484
e) None of these

842. $654.3 \times ? = 3140.64$

- a) 4.7 b) 4.9
c) 4.6 d) 4.8
e) None of these

843. Twelve years ago, A's age was $(3/4)$ th of that of B. Today, it is $(5/6)$ th. What was A's age 12 years ago?

- a) 18 years b) 24 years
c) 20 years d) 16 years
e) None of these

844. Vijay, Sudesh and Kapil invested Rs.2100,

Rs.3300 and Rs.4200 respectively in the business. How much share of profit will Kapil get more than Sudesh if the overall profit is Rs.640 at the end of one year?

- a) Rs.280 b) Rs.220
c) Rs.250 d) Rs.60
e) None of these

845. What is the cost price of the article when it is sold for Rs.88.50 at a gain of 18%?

- a) Rs.70 b) Rs.75
c) Rs.80 d) Rs.65
e) None of these

846. What is the difference between two positive numbers whose sum is 32 and the sum of their squares is 520?

- a) 1 b) 2
c) 3 d) 4
e) None of these

847. Which of the following is the greatest number which divides 389 and 518 leaving remainders of 2 and 5 respectively?

- a) 3 b) 9
c) 8 d) 7
e) None of these

848. If one-fourth of one-sixth of a number is 40. What is the number?

- a) 940 b) 950
c) 960 d) 980
e) None of these

849. By how much is two-thirds of 965 more than two-thirds of 250?

- a) 467.76 b) 467.67
c) 476.76 d) 476.67
e) None of these

850. The average age of 28 children in a class is 8 years. If the teacher's age is added, the average age becomes 9 years. What is the teacher's age in years?

- a) 37 b) 32
c) 42 d) 45
e) None of these

851. The ratio of Ram's age to Tinku's age at present is 6 : 7. If the sum of their ages at present is 28, what is Ram's age at present?

- a) 11 years b) 12 years
c) 16 years d) 19 years
e) None of these

852. A train travels 120 kms / hr. How many metres will it travel in 15 minutes?
- 32,560 metres
 - 33,450 metres
 - 30,000 metres
 - 30,520 metres
 - None of these
853. Lilly bought gold sheets for Rs. 17,000 and spent Rs. 150 for transport. She paid Rs. 1200 for decorative items and made 9 Tanjore arts, which she sold at Rs. 2595 each. What is her profit percentage?
- 15 %
 - 19 %
 - 23 %
 - 27.27 %
 - None of these
854. 12 Labours can complete a work in 24 days. How many more days will 8 labours take to complete the same work?
- 12
 - 9
 - 16
 - 4
 - None of these
855. The area of a circular camp is 3540 m². How much distance will have to be covered by man if he cross the camp along its diameter?
- 66.12 m
 - 65.12 m
 - 67.12 m
 - 68.12 m
 - None of these
856. A sphere of radius 4 cm is put into water contained in a cylinder of base radius 8 cm. If the sphere is completely immersed in the water, the water level rises by
- $\frac{4}{3}$ cm
 - $\frac{2}{3}$ cm
 - $\frac{1}{2}$ cm
 - $\frac{5}{8}$ cm
 - None of these
857. A train takes 5 seconds to pass an electric pole. If the length of the train is 74 metres, then the time taken by it to cross a platform 120 metres long is
- 13.10 seconds
 - 9 seconds
 - 5 seconds
 - 4 seconds
 - None of these

858. Kareem can do a piece of work in 10 days which Ahamed can do in 12 days. In how many days will they finish the work if both working together?
- $\frac{6}{11}$
 - $\frac{11}{6}$
 - $\frac{11}{60}$
 - $\frac{60}{11}$
 - None of these
859. On a sum of Rs. 5000, Simple Interest received was Rs. 1125 for 3 years and 9 months. What is the rate of Simple Interest?
- $2\frac{1}{2}$ %
 - 4 %
 - 6 %
 - $7\frac{1}{2}$ %
 - None of these
860. If the Simple Interest on a sum of money for 2 years at 5% p.a. is 50, what is the Compound Interest on the same sum at same rate for the same time?
- Rs. 51.25
 - Rs. 50.25
 - Rs. 49.25
 - Rs. 48.25
 - None of these
861. A man swims downstream in 12 kmph and upstream in 4 kmph. His speed in still water is
- 8 kmph
 - 3 kmph
 - 4 kmph
 - 2 kmph
 - None of these
862. The average age of 5 boys is 12 years. The average age of 3 others is 16. The average age of all the 8 boys is
- 12.5 years
 - 13 years
 - 13.5 years
 - 14 years
 - None of these
863. The average of 20 numbers is 12. The average of first 12 numbers is 11 and that of next 7 numbers is 10. The last number is
- 38
 - 48
 - 37
 - 49
 - None of these
864. A man spends a part of his monthly income and saves a part of it. The ratio of his expenditures to his savings is 26 : 3. If his monthly income is Rs.7250, what is his monthly savings?
- 350
 - 450
 - 550
 - 750
 - None of these

865. Successive discount of 20% and 15% are equal to a single discount of

- a) 32%
- b) 35%
- c) 37%
- d) 39%
- e) None of these

866. Find the value of $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}}$

- a) 0
- b) $8\frac{1}{2}$
- c) $\frac{5}{8}$
- d) $\frac{8}{5}$
- e) None of these

867. The value of $\sqrt{248\sqrt{52 + \sqrt{144}}}$

- a) 16
- b) 17
- c) 18
- d) 19
- e) None of these

868. Simplify: $\frac{\frac{7}{2} \times \frac{2}{5} \times \frac{3}{2}}{\frac{7}{2} \div \frac{15}{4}} \times \frac{1}{5}$

- a) 0.45
- b) 0.045
- c) 1.45
- d) 1.045
- e) None of these

869. The value of $\sqrt{-\sqrt{3} + \sqrt{(4 + \sqrt{3})^2}}$ is

- a) 4
- b) 9
- c) 2
- d) 0
- e) None of these

870. The product of two numbers is 96 and one number is $1\frac{1}{2}$ times than the other; then the greater number is

- a) 24
- b) 12
- c) 16
- d) 8
- e) None of these

871. A number is first increased by 20%, then reduced by 20%. What would be the percentage change in the number?

- a) 2
- b) 4
- c) 6
- d) No change
- e) None of these

872. Find the sum of prime numbers lying between 60 and 75?

- a) 272
- b) 201
- c) 211
- d) 199
- e) None of these

873. Simplify: $5 + \frac{1}{6 + \frac{1}{8 + \frac{1}{10}}}$

- a) $4\frac{81}{96}$
- b) $5\frac{81}{96}$
- c) $5\frac{81}{496}$
- d) $6\frac{81}{96}$
- e) None of these

874. Find the value of $\sqrt{(2 + \sqrt{3})^2}$

- a) 4
- b) 2
- c) 1.732
- d) 3.73
- e) None of these

875. If $x + \frac{1}{x} = 20$, the value of $x^2 + \frac{1}{x^2} = ?$

- a) 40
- b) 10
- c) $\frac{20}{3}$
- d) 2
- e) None of these

876. If $3^{x-y} = 27$ and $3^{x+y} = 243$, find the value of x.

- a) 3
- b) 9
- c) 7
- d) 4
- e) None of these

877. A fort had provision for 150 men for 45 days. After 10 days 25 men left the fort. How long will the food last at the same rate?

- a) 50 days
- b) 54 days
- c) 40 days
- d) 42 days
- e) None of these

878. A sum of money is divided between two persons in the ratio of 4 : 9. If the share of one person is 40 less than that of the other, find the sum.

- a) 240
- b) 120
- c) 80
- d) 104
- e) None of these

879. Two numbers are respectively 20% & 50% more than a third. What percentage is the first of the second?

- a) 20%
- b) 50%
- c) 80%
- d) 75%
- e) None of these

880. If the annual increase in the population of a town is 4% and the present number of people is 15625, what will the population be in 3 years time?
- a) 17625 b) 17756
c) 17567 d) 17576
e) None of these
881. The average of 11 results is 50. If the average of first six results is 49 and that of last six is 52. Find the sixth result.
- a) 56 b) 42
c) 47 d) 45
e) None of these
882. If a commission of 10% is given on the written price of an article, the gain is 20%. If the commission is increased to 20% the gain percentage is
- a) 20% b) $4\frac{1}{3}\%$
c) 7% d) $4\frac{1}{6}\%$
e) None of these
883. The value of the asterisks in the given problem is
- $$\frac{*}{21} \times \frac{*}{189} = 1$$
- a) 62 b) 63
c) 14 d) 21
e) None of these
884. Anil bought a book with 20% discount on the original price. He got a profit of Rs. 50 by selling it at a price 150% of the price at which he bought. What was the original price of the book?
- a) Rs. 125 b) Rs. 120
c) Rs. 135 d) Rs. 140
e) None of these
885. A machine is sold for Rs. 4800 at a gain of 10%. What would have been the gain or loss percent if it had been sold for Rs. 4763.63?
- a) 9.1% b) 15%
c) 7% d) 3%
e) None of these
886. A man bought a certain quantity of rice at the rate of Rs. 150 for 100 kg. 10% of the rice was spoiled. At what price should he sell the remaining to gain 20% of his outlay?

- a) Rs. 200 b) Rs. 180
c) Rs. 175 d) Rs. 195
e) None of these
887. The simple interest on a sum at 4% per annum for 2 years is Rs. 80. Find the compound interest on the same sum for the same period.
- a) Rs. 87.50 b) Rs. 85.75
c) Rs. 84.23 d) Rs. 81.6
e) None of these
888. The compound interest on Rs. 10,000 in 2 years at 4% per annum, if being compounded half yearly is
- a) Rs. 636.80 b) Rs. 828.82
c) Rs. 824.32 d) Rs. 912.86
e) None of these
889. The area of the largest circle that can be drawn inside a rectangle with sides 18 cm by 14 cm is
- a) 44 cm^2 b) 54 cm^2
c) 154 cm^2 d) 152 cm^2
e) None of these
890. One fourth of one third of two fifth of a number is 15. What will be 40% of that number?
- a) 270 b) 180
c) 350 d) 120
e) None of these
891. The number of natural numbers divisible by 5 between 1 and 1000 is
- a) 196 b) 197
c) 200 d) 199
e) None of these
892. Raju and Sekar contested in an election. Raju got 65% of the votes and won by 300 votes. Calculate the total number of votes polled?
- a) 950 b) 850
c) 800 d) 1000
e) None of these
893. In a certain mixture of 20 kg, 10% is water. How much water be added to it to raise the percentage to 25%?
- a) 4 kg b) 6 kg
c) 8 kg d) 7 kg
e) None of these
894. Two numbers are in the ratio of 3 : 5. If 9 is subtracted from each of them, the ratio