



**SUNBEAM**

Exploring New Ideas Teaching New Heights

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# Interest

Q. In 5 years, Rs.5000 amounts to Rs.9000. In what time at the same rate will Rs.600 amount to Rs. 900?

- A. 10 years
- B. 7.1 years
- C. 3.12 years
- D. 8.4 years

**Ans: C**



# Profit & Loss

Q. By selling 100 pens for Rs. 400, a person loses 20%. How many pens should be sold for Rs. 120 to have a profit of 20%?

- A. 20 pens
- B. 30 pens
- C. 42 pens
- D. 18 pens

**Ans: A**



# Speed, Time & Distance

Q. If a train run at 40 km/hr, it reaches its destination late by 11 mins, but if it runs at 50km/hr, it is late by 5 mins only. The correct time for the train to complete its journey is

- A. 10mins
- B. 12mins
- C. 19mins
- D. 8 mins

**Ans: C**



# Partnership

Q. A started a business with Rs. 15000 and is joined afterwards by B with Rs. 20000. After how many months did B join if the profit at the end of year are divided equally?

- A. 2 months
- B. 3 months
- C. 8 months
- D. 6 months

**Ans: B**



# Ratio & Proportion

Q. If  $0.75:x :: 5:8$  then  $x$  is equal to:

A. 1.12

B. 1.20

C. 1.25

D. 1.30

**Ans: B**



# Percentage

Q. If the price of a product is first decreased by 25% and then increased by 20% then what is the percentage change in price?

- A. 10%
- B. 15%
- C. 20%
- D. 35%

**Ans: A**



# Speed, Time & Distance

Q. By walking at  $\frac{3}{4}$ <sup>th</sup> of his usual speed, a man reaches office 20 minutes later than usual. What is his usual time?

- A. 10 mins
- B. 12 mins
- C. 19 mins
- D. 60 mins

**Ans: D**





# Profit & Loss

Q. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15%?

- A. Rs. 25,300
- B. Rs. 28,700
- C. Rs. 25,000
- D. Rs. 24,300

**Ans: A**



# Work & Time

Q. A and B can do a piece of work in 18 days, B and C can do it in 24 days while C and A can finish it in 36 days. In how many days can A,B,C finish it, if they all work together?

- A. 30 days
- B. 45 days
- C. 16 days
- D. 25 days

**Ans : C**



# Pipes & Cistern

Q. A container can empty the full tank in 9 hours. An inlet pipe fills water at the rate of 4 liters a minute. When the tank is full, the inlet is opened and due to the leak, the tank is empty in 12 hours. How many liters does the container hold?

- A. 8640 lit
- B. 1440 lit
- C. 9250 lit
- D. 2880 lit

**Ans : A**



# Calendar

Q. The calendar for the year 2019 will be same for which next immediate year?

A. 2047

B. 2036

C. 2030

D. 2025

**Ans : C**



# Profit & Loss

Q. By selling 1 purse for Rs. 230, a profit of 15% is made. At what price purse should be sold to make a profit of 20%?

- A. Rs. 240
- B. Rs. 320
- C. Rs. 280
- D. Rs. 275

**Ans : A**



# Partnership

Q. A sum of money is to be distributed among A,B,C,D in the proportion of 5:2:4:3. If C gets Rs.1000 more than D, What is B's share?

- A. Rs. 500
- B. Rs. 1500
- C. Rs. 2000
- D. Rs. 10000

**Ans : C**



# Mixture & Allegations

Q. Pure oil costs Rs. 100/kg. After processing it with natural oil costing Rs. 50/kg, a shopkeeper sells the mixture at the rate of Rs. 96/kg, thereby making a profit of 20%. In what ratio does he mix the two?

- A. 3:2
- B. 2:1
- C. 1:4
- D. 2:3

**Ans : A**



# Clock

Q. A clock takes 9 seconds to strike 4 times. In order to strike 12 times at the same rate, the time taken is:

- A. 27 seconds
- B. 36 seconds
- C. 30 seconds
- D. 33 seconds

**Ans : D**





# Mixtures & Allegations

Q. In a 729 litres mixture of acid and water, the ratio of acid to water is 7 : 2. to get a new mixture containing acid and water in the ratio 7 : 3, the amount of water to be added is:

- A. 81 litres
- B. 71 litres
- C. 56 litres
- D. 50 litres

**Ans : A**



# Mixtures & Allegations

Q. A trader has 50 kg of pulses, part of which he sells at 14% gain and rest at 6% loss. On the whole his loss is 4%. How much quantity is sold at 14% gain and that at 6% loss?

- A. 15kg,35kg.
- B. 5kg,45kg.
- C. 10kg,40kg.
- D. 45kg,5kg.
- E. 40kg,10kg

**Ans : B**



# Mixtures & Allegations

Q. A container contains 25 litre of milk. From this container, 5 litre of milk is taken out and replaced by water. This process is further repeated two times. How much milk is there in the container now?

- A. 11.5 litre
- B. 14.8 litre
- C. 13.5 litre
- D. 12.8 litre

**Ans : D**



# Mixtures & Allegations

Q. Acid and water in two vessels A and B are in the ratio 5 : 3 and 5 : 4 respectively. In what ratio, the liquid of both the vessels be mixed to obtain a new mixture in vessel C in the ratio 7 : 5?

A. 2 : 3

B. 3 : 2

C. 3 : 5

D. 5 : 3

**Ans : A**



# Mixtures & Allegations

Q. A shopkeeper mixes 26 kg of wheat at Rs.20 per kg with 30 kg of wheat of other variety at Rs.36 per kg and sells the mixture at Rs.30 per kg. His profit percent is:

- A. 5%
- B. 10%
- C. 8%
- D. None of these

**Ans : A**



# Percentage

Q. A population of a town increases by 10% in the first year and decreases by 10% in the second year. What is the net percentage change in the population after two years?

- A. 2% decrease
- B. 0%
- C. 1% increase
- D. 1% decrease

**Ans : D**



# Partnership

Q. A sum of ₹680 is divided among A, B, and C in such a way that A gets  $\frac{2}{3}$  of what B gets, and B gets  $\frac{1}{4}$  of what C gets. How much money does C get?

A. ₹480

B. ₹360

C. ₹120

D. ₹180

**Ans : A**



# LCM/HCF

Q. Two numbers are in ratio 13: 9 and their HCF is 13. Find the largest number.

A. 169

B. 117

C. 52

D. 143

**Ans : A**





# Interest

Q. The compound interest on Rs. 8000 for 9 months at 20% p.a. being compounded quarterly.

- A. Rs. 1361
- B. Rs. 1261
- C. Rs. 1431
- D. Rs. 1298

**Ans : B**



# Interest

Q. What is the simple interest on Rs. 32,000 at 8.5% per annum for period from 10th Feb., 2019 to 24th April, 2019?

- A. Rs. 550
- B. Rs. 555
- C. Rs. 544
- D. Rs. 540

**Ans : C**



# Interest

Q. The difference between compound interest and simple interest on a sum of Rs 15000 for 2 years is Rs.96. What is the rate of interest per annum?

- A) 8%
- B) 10%
- C) 12%
- D) Cannot be determined
- E) None of these

**Ans: A**



# Ages/Averages

Q. The average age of husband, wife and their child 3 years ago was 27 years and that of wife and the child 5 years ago was 20 years. The present age of the husband is:

- A. 35 years
- B. 40 years
- C. 50 years
- D. 60 years

**Ans : B**



# Probability

Q. A bag contains 5 red, 3 blue, and 2 green balls. What is the probability of drawing a blue ball?

- A.  $1/5$
- B.  $1/3$
- C.  $3/10$
- D.  $2/5$

**Ans : C**



# Probability

Q. A box contains 10 white, 20 black, and 30 red balls. What is the probability of drawing a white ball?

- A.  $1/5$
- B.  $1/4$
- C.  $1/3$
- D.  $1/6$

**Ans : D**



# Probability

Q. Two dice are rolled. What is the probability of getting a sum of 7?

- A.  $1/6$
- B.  $1/12$
- C.  $5/36$
- D.  $1/3$

**Ans : A**



# Probability

Q. How many ways can 5 books be arranged on a shelf?

- A.  $5!$
- B.  $5^2$
- C.  $5^3$
- D.  $5^4$

**Ans : A**





# Averages

Q. The average of five numbers is 20. If one number is removed, the average becomes 18. What is the value of the number removed?

- A) 22
- B) 26
- C) 28
- D) 30

**Ans : C**



