

1) A train and a cyclist reach a station every day at the same time. One day the cyclist starts 20 minutes late from his house. On his way to station the train crosses him at 5 miles before station. The speed of the cyclist is 12 mph. Find the speed of the train.

Ans: 60 mph

2) There is an element which triplicates in every hour. Each of these 3 items in turn reproduces exactly 3 other items. If a single compound is kept in a container at noon and the container is full by midnight. After how many hours is the container $\frac{1}{3}$ full.

Ans: 11:00 pm

3) A person goes to a bank and quotes x Rs and y paise on a cheque. The cashier misreads it and gives y Rs and x paise. The man comes out and donates 5 paise to a beggar. Now, the man has exactly double the amount he quoted on the cheque.

Ans: 31 Rs. and 63 paise.

4) There are some chickens in a poultry. They are fed with corn. One sack of corn will last for 9 days. The farmer decides to sell some chickens and wanted to hold 12 chickens with him. He cuts the feed by 10% and a sack of corn lasts for 30 days. So initially how many chickens were there?

Ans: 36

5) There are two glasses A and B. A contains orange juice and B contains apple juice in the same quantity. Some amount of orange juice from glass A is transferred to glass B. The juice in glass B is mixed well. Then again the same amount of juice from B is transferred to A. Compare the quantities of apple juice in A and orange juice in B.

Ans: Equal.

6) 100 kg. potatoes with 98% water content are dried in an oven. The percentage of water decreases to 50%. What is the weight of potatoes now.

Ans: 4 kg.

7) There are 4 parties A, B, C, D. Ram told that either A or B will win. Shyam told C will never win. Hari told either B or C or D will win. Only one of them was correct. Which party won?

Ans: C

8) There are n Railway stations. Ticket facility is available between every two stations. Recently, m new stations are built so that 42 new tickets are to be printed. How many stations were there? How many are newly constructed.

Ans: $n=6; m=3$;

initially $n(n-1)$ were printed. ie 30.

Later on, $(n+m)(n+m-1)$ are printed ie 72. (so
72-
30 = 42)

9) A clock takes 33 seconds to complete the pendulum sound when it is 12:00 noon. How long one can hear the pendulum sound it is 6:00 a.m.??

10) Mr. X (got Paramvir Chakra in 1971) died when his age was $\frac{1}{59}$ th the year of birth. What was his date of birth?

ans-1947

11) There is 66×33 m rectangular area. Ram is $\frac{11}{8}$ times faster than Krishna. Both of them started walking at opposite ends and they met at some point then, Ram said "See you in the other end" Then they continued walking. After some time Ram thought he will have tea so he turned back walked back 15 meters then he changed his mind again and continued walking. How much Krishna has traveled by the time they meet?

12) There are 6561 number of balls in a bag. Out of which one is heavy ball. In how many minimum number of weighing you can find the heavy ball.

ans-8.

13) The profit made by a company in one year is enough to give 6% return on all shares. But as the preferred shares get on return of 7.5%, so the ordinary shares got on return of 5%. If the value of preferred shares is Rs-4,000,000, then what is the value of ordinary shares?

ans-6,000,000.

14) There were 50 players playing a game among themselves. Each player is out of the game when lose 3 matches. What is the number of matches should be played in order to get the winner.

15) A & B two places. C & D are two people. C started from A and D started from B. When they meet each other in the way C traveled 18m more than D. Then C takes 13 and half a minute and D takes 24 minutes to reach the other end. What was the distance between A & B. ans-

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126.

16) i have been hearing a girl singing a song for last two score.

song: if seven times five and three times seven is added to my age it would be as far above six nines and four as the difference between twice of my age and a score. given-a score is 20 yrs.

17) A tourist wants to go from a to b. there are four ways to do this.

1. to take a wagon. the wagon stops for half an hour at a station in between a & b and then goes to b.
2. to walk to b. if he leaves a at the same time the wagon leaves, he will be between by the wagon by 1 mile to reach b.
3. to walk from a at the same time the wagon leaves from a. he will arrive at the mid station at the time when the wagon is prepared to leave. He can take the wagon from there. this will take shortest time.
4. to go on upto the mid station & to walk from there. he will reach at b 15 minutes before the wagon. what is the distance between a & b ?.

18) in a train there is one brakeman, conductor, engineer & fireman. thair names are Art, John, Tom & Pete given in this order or in reverse order. you have to tale the occupation of the 4, w.r.t. these conditions:

- 1.brakeman has no relatives.
- 2.john is older than art.
- 3.engineer & fireman are brothers.
- 4.john is pete's nephew.
- 5.fireman is not conductor's uncle.
- 6.conductor is not engineer's uncle.

8) contd

ans: pete & tom are brothers.
tom--father and john is his son.
art--brakeman.
john--conductor.
tom--engineer.
pete--fireman.

19) there is a 18 strong building and 4 people live in it. they are dentist, lawyer, accountant, architect.(i am giving only a part of the question)

--dentist floor is 5 times the lawyer' floor.

--account is below dentist.

--if archetect moves two floors up he will be midway between dentist and account.

---if architect moves to midway of the building (9th floor) then he will be middle of dentist & lawyer.

---ground floor can be ignored i.e. floor 0.

ans--dentist 15.

accountant 13.

archetect--12.

lawyer-- 3.

20) 4 ladis, mrs margarat, mrs price, mrs winter & mrs ellen went for marketing. Each went for 2 shops only.

their surnames are lorret,torrey, doris and marshall.

--one went to a hardwares shop.

--two went to bank.

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--two went to buchers.
--all but dorris went to grocery