

Aptitude (SET 1)

1. Three friends divided some bullets equally. After all of them shot 4 bullets the total number of bullets remaining is equal to the bullets each had after division. Find the original number divided.

Ans: 18

2. In a class composed of x girls and y boys what part of the class is composed of girls

A. $y/(x + y)$

B. x/xy

C. $x/(x + y)$

D. y/xy

Ans.C

3 What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream(2 pt.=1 qt. and 4 qt.=1 gal)

A.16

B.24

C.30

D.64

Ans.D

4. If the operation, \wedge is defined by the equation $x \wedge y = 2x + y$, what is the value of a in $2 \wedge a = a \wedge 3$

A.0

B.1

C.-1

D.4

Ans.B

5. A coffee shop blends 2 kinds of coffee, putting in 2 parts of a 33p. a gm. grade to 1 part of a 24p. a gm. If the mixture is changed to 1 part of the 33p. a gm. to 2 parts of the less expensive grade, how much will the shop save in blending 100 gms.

A.Rs.90

B.Rs.1.00

C.Rs.3.00

D.Rs.8.00

Ans.C

6. There are 200 questions on a 3 hr examination. Among these questions are 50 mathematics problems. It is suggested that twice as much time be spent on each maths problem as for each other question. How many minutes should be spent on mathematics problems

- A.36
- B.72
- C.60
- D.100

Ans.B

7. In a group of 15, 7 have studied Latin, 8 have studied Greek, and 3 have not studied either. How many of these studied both Latin and Greek

- A.0
- B.3
- C.4
- D.5

Ans.B

8. If $13 = 13w/(1-w)$, then $(2w)^2 =$

- A.1/4
- B.1/2
- C.1
- D.2

Ans.C

9. In June a baseball team that played 60 games had won 30% of its games played. After a phenomenal winning streak this team raised its average to 50%. How many games must the team have won in a row to attain this average? A. 12

- B. 20
- C. 24
- D. 30

Ans. C

10. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- A. 7
- B. 8

- C. 11
- D. 12

Ans.C

11. 2 hours after a freight train leaves Delhi a passenger train leaves the same station travelling in the same direction at an average speed of 16 km/hr. After travelling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?A. 30
B. 40
C.58
D. 60

Ans. B

- 12 x,y and z are odd no. not necessarily in sequence.then y=?
(1)mean of x and z is 114.
(2)mean of y and z is 113.

Ans: 115

13. ram is 27 year old then mohan. after 7 year ram age is thrice as mohan age .find ram age?

Ans : 67/2

- 14 if three tapes are filling a tank of capacity of 500lit with speed of 30lit/sec,48lit/sec and 36lit/sec.

Find after how long time tank will fill?

Ans : 500/114

15. suppose in a pot 20 cards are there label 1-20 on that. find the probability of getting two prime.

Ans : 8/20 = 2 / 5

16. If a person sells a product for rs141/- he suffers a loss of 6%.if he has to have a profit of 10%,

at what price should he sell it?

- (a) rs250
- (b) rs.175
- (c) rs 195.
- (d) rs.165

Ans.rs.165

17. A ball falls from a height of 8ft ,bounces back to half the distance & continues till it comes to rest.

what is the total distance traveled by the ball?

- (a) 24ft
- (b) 30 ft
- (c) infinite
- (d) cannot be determined

Ans:(a)

18. If 3 houses are to be painted, mr A can paint a house in 6 days (nos are not same)...mr B can do the same in 8

days...& mr.C in 12 days. if mr A does the work for 8 days & leaves for vacation, & mr B continues the work for

the next 6 days, for how many days should mr.C work?

Ans:11 days(check)

19. one student takes 20 mins to reach school if he goes at a speed of 15kmph .At what speed should he go to

reach in 15 mins (nos are not same)

Ans: 16kmph

20. How many rational numbers are there between 0 & 5 ?

Ans:infinite

21. A cube of 3 unit has 6 surface is painted. If u cut the cube of 1 unit each how many cubes remain unpainted

on all sides ?

Ans.1

22. one questions in profit and loss a person sold an article at Rs.141 at 6% loss, to gain a profit of 10% at what price

the article should be sold.

Ans: 165 Rs

23. 1st day of the year 1999 is sunday and what will be last day of the same year

Ans: sunday

24. 6 squares of equal size are placed side by side to form a rectangle whose perimeter is 182. find the perimeter of

the single square.

Ans: 52

25 .The average age of students in a class is 16.when a teacher of age 40 is added , the average becoems 17. what is

the total number of students

Ans.23

26. One person travelled 4 laps with the speed of 10, 20, 40 (or 30) and 60 kmph and what is the average speed.

Ans: 20

27. If Rs20/- is available to pay for typing a research report & typist A produces 42 pages and typist B produces

28 pages. How much should typist A receive?

Ans: :Rs12/-

28. 4 thieves rob a bakery of the bread one after the other. Each thief takes half of what is present, & half

a bread...if at the end 3 bread remains, what is the no of bread that was present initially?

Ans:63

29. Six squares of same dimension are kept side by side to make a rectangle with a perimeter of 182cm.

What is the perimeter of each square?

Ans: 52

29. One student takes 20 mins to reach school if he goes at a speed of 15kmph. At what speed should he go to

reach in 15 mins (nos are not same)

Ans: 16kmph(check)

30. A clerk multiplied a number by ten when it should have been divided by ten. The ans he got was 100. What should

the answer have been?

Ans::1

Aptitude (SET 2)

1. If he sells 40 mangoes, he will get the selling price of 4 mangoes extra, What is his % increase in profit?

Ans: 25%

2. Two pipes can fill a tank in 10 and 12 hours respectively while third pipe will make the tank empty in 20

hours. If all three pipes operate simultaneously, in how many hours the tank will be filled?

Ans.7hours 30 minutes.

3. Cost of an item is x . Its value increases by $p\%$ and decreases by $p\%$ Now the new value is 1 rupee, what is the actual value ?

Ans. $(1000)/(1000-p*p)$.

4. $6*12*15$ is the volume of some material. How many cubes of edge 3 can be inserted into it ?

Ans. 40

5. 100 glasses are there. A servant has to supply glasses to a person If he supplies the glasses without any damage he will get 3 paise otherwise he will loose 3 paise. At the end of supplying 100 glasses if he gets 270 paise, how many glasses were supplied safely.

Ans. 95

6. In a class composed of x girls and y boys what part of the class is composed of girls ?

- A. $y/(x + y)$
- B. x/xy
- C. $x/(x + y)$
- D. y/xy

Ans. C

7. What is the maximum number of half-pint bottles of cream that can be filled with a 4-gallon can of cream(2 pt.=1 qt. and 4 qt.=1 gal)

- A. 16
- B. 24
- C. 30
- D. 64

Ans. D

8. If the operation, \wedge is defined by the equation $x \wedge y = 2x + y$, what is the value of a in $2 \wedge a = a \wedge 3$

- A. 0
- B. 1
- C. -1
- D. 4

Ans.B

9. A coffee shop blends 2 kinds of coffee, putting in 2 parts of a 33p. a gm. grade to 1 part of a 24p. a gm.

If the mixture is changed to 1 part of the 33p. a gm. to 2 parts of the less expensive grade, how much

will the shop save in blending 100 gms.

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these studied both Latin and Greek

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- C.4
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12. In June a baseball team that played 60 games had won 30% of its game played. After a phenomenal

winning streak this team raised its average to 50% .How many games must the team have won in a

row to attain this average?

- A. 12
- B. 20

- C. 24
- D. 30

Ans. C

13. M men agree to purchase a gift for Rs. D. If three men drop out how much more will each have to contribute towards the purchase of the gift ?

- A. $D/(M-3)$
- B. $MD/3$
- C. $M/(D-3)$
- D. $3D/(M^2-3M)$

Ans. D

14. A company contracts to paint 3 houses. Mr. Brown can paint a house in 6 days while Mr. Black would take 8 days and Mr. Blue 12 days. After 8 days Mr. Brown goes on vacation and Mr. Black begins to work for a period of 6 days. How many days will it take Mr. Blue to complete the contract?

- A. 7
- B. 8
- C. 11
- D. 12

Ans.C

15. 2 hours after a freight train leaves Delhi a passenger train leaves the same station traveling in the same direction at an average speed of 16 km/hr. After traveling 4 hrs the passenger train overtakes the freight train. The average speed of the freight train was?

- A. 30
- B. 40
- C. 58
- D. 60

Ans. B

16. A gold density is 19 times greater than the water and for copper it is 9 times. At what ratio you can mix gold and copper to get 15 times denser than water. ?

Ans: 3 : 2

17. There is a room with 6' x 8'. A 1' tile is fixed along the 4 walls in one row. How many 1" tiles require to finish the work. ?

Ans: 24

18. 2 persons can finish a job in 8 days. First person alone can finish the work in 24 days. How many days does the second person take to finish the job?

Ans: 12 days

19. In a class total 34 students, 16 are have a brother, 15 are have sisters, 9 students don't have either brothers or sisters. Find the number of students having both brother and sisters.

Ans: 6

21. In a car wheel, two spokes cover 15 degree. Then for the entire car, how many spokes are there?

Ans: 24

20. What is the angle of degree suspended when two hands of clock showing the time 2:30?

Ans: 105 degrees

21. The age difference between two brothers is 3 years. After 6 years the ratio between the age is 9:8. What are their ages?

Ans: 21 and 18

22. A person's salary is getting reduced by 20%. What percentage should be added to get back his original salary?

Ans: 25%

23. Two persons start at the same point, walk in opposite directions with 5 km/hr and 5.5 km/hr respectively.

What is the distance separated after 2 and half hrs?

Ans: 26.25 (approx)

24. A person starts walking at a speed of 5 km/hr through half the distance, rest of the distance he covers with a speed 4km/hr. Total time of travel is 9 hours. What is the maximum distance he can cover?

Ans: 40km

25. Initially two cups of same volume are present with milk filled upto $\frac{3}{5}$ th and $\frac{4}{5}$ th of their volumes.

Water is then filled. Then two mixtures are mixed. Find the ratio of water to milk in the mixture.

Ans: 3 : 7

26. 16 grams of radioactive material decays into 8 grams in 10 years. How long will it take to decay to 1 gram?

Ans: 70 yrs

27. In a rectangle the length is increased by of the original length. By what proportion should the width be reduced

so that the area will be the same?

Ans: 33

28. If a square is formed by the diagonal of the square as an edge, what is the ratio between the area?

Ans: 2

29. The perimeter of a rhombus is 52 units. One of its diagonal is 24 units. What is its second diagonals length?

Ans: 10

30. A batsman scored 18 runs in his 18th innings and that makes his average 18. Find his average up to the 17th innings?

Ans: 19

Aptitude (SET 3)

1. From a vessel, $\frac{1}{3}$ rd of the liquid evaporates on the first day. On the second day $\frac{3}{4}$ th of the remaining liquid evaporates. What fraction of the volume is present at the end of the second day.

Ans: 50%.

2. An orange glass has orange juice and white glass has apple juice both of equal volumes. 50 ml of the orange juice is taken and poured into the apple juice. 50 ml from the white glass is poured into the orange glass. Of the two quantities, the amount of apple juice in the orange glass and the amount of orange juice in the white glass, which one is greater and by how much?

Ans: The two quantities are equal.

3. There is a 4 inch cube painted on all sides. This is cut down into of 1 inch cubes. What is the no of cubes which have no pointed sides?

Ans: 8.

4. Sam and Mala have a conversation. Sam says I am certainly not over 40. Mala says I am 38 and you are at least 5 years older than me. Now, Sam says you are atleast 39. All the statements by the two are false. How old are they really?

Ans: Mala = 38 yrs; Sam = 41 yrs.

5. There is a certain four digit number whose fourth digit is twice the first digit. Third digit is three more than second digit. Sum of the first and fourth digits twice the third number. What was that number?

Ans: 2034 and 4368.

6. In a railway station, there are two trains going. One in the harbour line and one in the main line, each having a frequency of 10 minutes. The main line service starts at 5 o'clock and the harbour line starts at 5.02A.M. A man goes to the station every day to catch the first train that comes. What is the probability of the man catching the first train?

Ans: 0.8.

7. A family X went for a vacation. Unfortunately it rained for 13 days when they were there. But whenever it rained in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and

12 afternoons.

How many days did they stay there totally?

Ans: 18.

8. There is a safe with a 5 digit No. The 4th digit is 4 greater than second digit, while 3rd digit is 3 less than 2nd digit.

The 1st digit is thrice the last digit. There are 3 pairs whose sum is 11. Find the number.

Ans: 65292

9. Bird is flying 120 km/hr between B to R. Two trains at B to R at 60 kmph. The distance traveled by the bird before it is killed?

Ans: 120

10. Four persons have to cross the bridge they are having one torch light. Four persons take 1,2,5,10 minutes respectively, when two persons are going they will take the time of the slowest person what is the time taken to cross all of them.

Ans: 17 minutes.

11 A vendor sells two things at same cost 12 Rs with one item at 25% profit and other at 20% loss, by this transaction he made profit or loss by how much?

Ans: Loss,60%.

12. Two friends A and B are running up hill and then to get down. Length of road is 440 yards. A on his return journey met B going up at 20 yards from top. If A has finished the race 5 minutes earlier than B, then how much time A had taken to complete the race?.

Ans: 6.3 minutes

13. In the month of October in a year has exactly four Mondays and four Fridays, find what day of week will be on the 20th of November of that year.

Ans: 20th November was a wednesday.

14. Six persons A,B,C,D,E & F went to solidier cinema. There are six consecutive seats. A sits in one of the seats

followed by B, followed by C and soon. If a taken one of the six seats , then B should sit adjacent to A. C

should sit adjacent A or B. D should sit adjacent to A, B,or C and soon. How many possibilities are there?

Ans: 32 ways.

15. 4 mathematician has x apples. If he arranges them in rows of 3 one will be left. The same is the case with

5,7,9 apples. But when he arranged them in rows of 11, non will be left. Find the no. of apples.

Ans: 946.

16. A merchant in the last day sells 2 lamps for Rs.12 price. He finds that he has got 25 % gain on one and 20%

lost on the other. Did he loose or gain overall? If so how much?

Ans: 60 paise Loss.

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

Ans: 1947.

18. 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.

19. 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 preferd shares is

Rs 4,000000, then what is the value of ordinary shares?

Ans: Rs. 6,000000.

20. 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 18 m 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: 126.]

21. A family I know has several children. Each boy in this family has as many sisters as brothers but each girl has twice as many brothers as sisters. How many brothers and sisters are there?

Ans: 4 boys and 3 girls

22. There is a 5 digit no. 3 pairs of sum is eleven each. Last digit is 3 times the first one. Third digit is 3 less than the second. 4th digit is 4 more than the second one. Find the digit.

Ans: 25296.

23. There are five thieves, each loot a bakery one after the other such that the first one takes $\frac{1}{2}$ of the total no. of the breads plus $\frac{1}{2}$ of a bread. Similarly 2nd, 3rd, 4th and 5th also did the same. After the fifth one, no. of breads remained are 3. Initially how many breads were there?

Ans: 31.

24. A software engineer just returned from US, has eaten too much fat & put a lot of weight. Every Sunday he starts walking 4 km/hr on level ground, then up at 3 km/hr, then back down hill at 6km/hr, then again on level ground at 4km/hr till he reaches his destination. If he returned home at 9 p.m., what distance did he covered?

Ans: 24 km

25. There are 4 married couples, out of which, 3 people in a group is needed. But there should not be his or her spouse in the group. How many groups are possible?

Ans: 32.

26. In the 4 digits 1,2,3,4, how many 4 digit numbers are possible which are divisible by 4? Repetitions are allowed.

Ans: 64.

27. Two men are going along a track of rail in the opposite direction. One goods train crossed the first person in 20 sec. After 10 min the train crossed the other person who is coming in opposite direction in

18 sec.

After the train has passed, when the two persons will meet?

Ans: Approx. 72 min,

28. At six o'clock the wall clock struck 6 times. Checking with my Watch, I noticed that the time between the first & last strokes was 30 Seconds. How long will the clock take to strike 12 at mid night?

Ans: 66 Seconds.

29. A person spending out $\frac{1}{3}$ for cloths, $\frac{1}{5}$ of the remaining for food and $\frac{1}{4}$ of the remaining for travel. He is left with Rs 100/-. How he had in the beginning?

Ans: Rs 250/-.

30. A chain is broken into three pieces of equal lengths, containing 3 links each. It is taken to a blacksmith to join into a single continuous one. How many minimum numbers of links are to be opened to make it?

Ans: 2.

Aptitude (SET 4)

1. If the thrice of three consecutive odd no is equal to the more three of twice the last no. then find the 3rd (largest odd no).?

Ans: 11.

2. Rahul 12th from right and 4th from left . How many men should be added in the queue to make a group of 28?

Ans 13

3. Present population of town is 35,000 having males and females. If The population of males is increased by 6% and if the population of females is increased by 4%, then after 1 year the population becomes 36,700.

Find the number males and females ?

Ans18,000

4. Gets 90% of B. B gets 25% more than C. C gets 80% of D. Marks of A are given then find the percentage marks obtained by D.

Ans = 80%

5. Length of rectangular plot is 3 times its breadth having area 3 hectare . A man walks on its perimeter at 4 km/hr .

Find the time required ?

Ans 12 min

6 Speed of trains A and B are 29 & 56 km/hr travelling in the same direction. Man in slower train passes in 16 min.

Find the length of the train.?

Ans 120m

7 Y catches 5 times more fishes than X. If total number of fishes caught by X and Y is 48, then number of fishes

caught by X?

Ans: 8

8 The girl's age is twice that of boy, if the boy is four years old. After four years the age of the girl is ?

Ans: 12 years

9 A clock is late by 1 minute 27 seconds in a month. Then how much will it be late in 1 day?

Ans: 2.9 seconds

10 At 20% discount, a cycle is sold at a selling price of 2500 Rs. What is the actual price?

Ans: Rs. 3125

11. A man purchased 6 stamps of rupees 1 and seven stamps of 50 paise. he paid Rs. 12. how much change

he got back ?

Ans. 2.50 Rs

12. 8 man work for 6 days to complete a work. How many men are required to complete same work in 1/2 day.

Ans. 96 men.

13. A man drives at a speed of 40 miles/hr. His wife left 30 mins. late with 50 miles/hr speed. when will they meet ?

Ans. 2 hours

14. 1,40,00,000 pencils are put up straight. all the pencils are of length range 3 to 6 inches. 80% of the pencils have average of five inches. so the find out the total length spanned by the pencils.

Ans. 1000 to 1500 miles.

15. One person says 'his only daughter is my son's mother ', what is the relationship between 1st & 2nd person.

Ans :son –in –law

16 Alphabet 'A' to 'Z'. If we arrange in reverse order (Z to A) then which letter will be in the 5th position towards right ,taken from 11th better from left.

Ans: k

17. In a railway station, there are two trains going. One in the harbor line and one in the main line, each having a frequency of 10 minutes. The main line service starts at 5 o'clock and the harbor line starts at 5.02A.M. A

man goes to the station every day to catch the first train that comes. What is the probability of the man catching the first train?

Ans: 0.8

18. Light glows for every 13 seconds . How many times did it glow between 1:57:58 and 3:20:47 am.

Ans : $383 + 1 = 384$

19 From a vessel, 1/3rd of the liquid evaporates on the first day. On the second day 3/4th of the remaining liquid evaporates. What fraction of the volume is present at the end of the second day.

Ans: 50%

20. There are 20 poles with a constant distance between each pole. A car takes 24 second to reach the 12th pole.

How much will it take to reach the last pole.

Ans: 41.45 seconds

21. Two trains starting at same time, one from Bangalore to Mysore and other in opposite direction arrive at their

destination 1 hr and 4 hours respectively after passing each other. How much faster is one train from other?

Ans: Twice

22. Two trains start from stations A and B spaced 50kms apart at the same time and speed. As the trains start,
a bird flies from one train towards the other and on reaching the second train, it flies back to the first train. This is
repeated till the trains collide. If the speed of the trains is 25 km/h and that of the bird is 100km/h. How much did
the bird travel till the collision.
Ans: 100kms

23. Sometime after 10:00 PM a murder took place. A witness claimed that the clock must have stopped at the time of
the shooting. It was later found that the position of both the hands were the same but their positions had
interchanged Tell the time of the shooting (both actual and claimed).
Ans: Time of shooting = 11:54 PM Claimed Time = 10:59 PM

24. 500 men are arranged in an array of 10 rows and 50 columns according to their heights. Tallest among each row
of all are asked to fall out. And the shortest among them is A. Similarly after resuming that to their original
positions that the shortest among each column are asked to fall out. And the tallest among them is B. Now who is
taller among A and B ?
Ans. A

25. A family X went for a vacation. Unfortunately it rained for 13 days when they were there. But whenever it rained
in the mornings, they had clear afternoons and vice versa. In all they enjoyed 11 mornings and 12 afternoons.
How many days did they stay there totally?
Ans: 18

26. The minute and the hour hand of a watch meet every 65 minutes. How much does the watch lose or gain time and
by how much?
Ans: Gains; 5/11 minutes

27. Every day a cyclist meets a train at a particular crossing. The road is straight before the crossing and both are
traveling in the same direction. The cyclist travels with a speed of 10kmph. One day the cyclist comes late by 25
min. and meets the train 5km before the crossing. What is the speed of the train?
Ans: 60kmph

28. A ship went on a voyage. After it had traveled 180 miles a plane started with 10 times the speed of the ship.

Find the distance when they meet from starting point.

Ans: 200miles.

29. Father's age is three years more than three times the son's age. After three years, father's age will be ten years

more than twice the son's age. What is the father's present age?

Ans: 33 years.

30. A man collects cigarette stubs and makes one full cigarette with every 8 stubs. If he gets 64 stubs how many full

cigarettes can he smoke ?

Ans: $8+1=9$

Aptitude (SET 5)

1. The average salary of 3 workers is 95 Rs. per week. If one earns Rs.115 and second earns Rs.65 how much is the salary of the 3rd worker.

Ans.105.

2. A 16 stored building has 12000 sq.feet on each floor. Company A rents 7 floors and company B rents 4 floors.

What is the number of sq.feet of unrented floor space.

Ans.60000

3. During a given week A programmer spends $\frac{1}{4}$ of his time preparing flow chart, $\frac{3}{8}$ of his time coding and the

rest of the time in debugging the programs. If he works 48 hours during the week , how many hours did he spend

debugging the program.

Ans. 18.

4. A company installed 36 machines at the beginning of the year. In March they installed 9 additional machines and

then disconnected 18 in August. How many were still installed at the end of the year.

Ans. 27

5. A man owns $\frac{2}{3}$ of the market research beauro business and sells $\frac{3}{4}$ of his shares for Rs. 75000. What is the

value of Business ?

Ans.150000

6. If 12 file cabinets require 18 feet of wall space, how many feet of wall space will 30 cabinets require?

Ans.45

7. A computer printer produced 176,400 lines in a given day. If the printer was in operation for seven hours during the day, how many lines did it print per minute?

Ans.420

8. From its total income, A sales company spent Rs.20,000 for advertising, half of the remainder on commissions and had Rs.6000 left. What was its total income?

Ans.32000

9. On Monday a banker processed a batch of cheques, on Tuesday she processed three times as many, and on

Wednesday she processed 4000 cheques. In the three days, she processed 16000 cheques. How many did she

process on Tuesday?

Ans.9000

10. The cost of four dozen proof machine ribbons and five dozen accounting machine ribbons was Rs.160/-. If one

dozen accounting machine ribbons cost Rs.20/-, what is the cost of a dozen proof machine ribbons?

Ans.Rs.15

11. If a clerk can process 80 cheques in half an hour, how many cheques can she process in a seven and one half

hour day?

Ans.1200

12. In a library, there are two racks with 40 books per rack. On a given day, 30 books were issued. What fraction

remained in the racks?

Ans.5/8

13. The average length of three tapes is 6800 feet. None of the tapes is less than 6400 feet. What is the greatest

possible length of one of the other tapes?

Ans.7600

14. A company rented a machine for Rs.700/- a month. Five years later the treasurer calculated that if the company

had purchased the machine and paid Rs.100/- monthly maintenance charge, the company would have saved

Rs.2000/-. What was the purchase price of the machine?

Ans.Rs.34000

15. Two computers each produced 48000 public utility bills in a day. One computer printed bills at the rate of 9600 an

hour and the other at the rate of 7800 an hour. When the first computer finished its run, how many bills did the

other computer still have to print?

Ans.9000

16. If a salesman's average is a new order every other week, he will break the office record of the year. However,

after 28 weeks, he is six orders behind schedule. In what proportion of the remaining weeks does he have to

obtain a new order to break the record?

Ans.3/4

17 On a given day, a bank had 16000 cheques returned by customers. Inspection of the first 800 cheques indicated

that 100 of those 800 had errors and were therefore the available immediately for data processing. On this basis,

how many cheques would be available immediately for data processing on that day?

Ans.14000

18. A tape manufacturer reduces the price of his heavy duty tape from Rs.30/- to Rs.28/- a reel and the price of a

regular tape from Rs.24/- to Rs.23/- a reel. A computing centre normally spends Rs.1440/- a month for tapes

and 3/4 of this is for heavy duty tapes. How much will they save a month under the new prices?

Ans.Rs.87

19. The dimensions of a certain machine are 48" X 30" X 52". If the size of the machine is increased proportionately

until the sum of its dimensions equals 156", what will be the increase in the shortest side?

Ans. 6"

20 In a certain company, 20% of the men and 40% of the women attended the annual company picnic. If 35% of all

the employees are man, what percent of all the employees went to the picnic?

Ans.33%

21. It cost a college Rs.0.70 a copy to produce a Programme for the homecoming football game. If Rs.15,000/- was

received for advertisements in the programme, how many copies at Rs.0.50 a copy must be sold to make a profit

of Rs.8000/- ?

Ans. 35000

22. If the digits of my present age are reversed then i get the age of my son. If 1 year ago my age was twice as that

of my son. Find my present age.

Ans. father-73, son-37

23. There are 6561 balls out of them 1 is heavy. Find the min. no. of times the balls have to be weighed for finding out the heavy ball.

Ans. 8

24. If I walk with 30 miles/hr i reach 1 hour before and if i walk with 20 miles/hr i reach 1 hour late. Find the distance

between 2 points and the exact time of reaching destination is 11 am then find the speed with which it walks.

Ans. 120miles and 24 miles/hr

25. A thief steals half the total no of loaves of bread plus $\frac{1}{2}$ loaf from a bakery. A second thief steals half the

remaining no of loaves plus $\frac{1}{2}$ loaf and so on. After the 5th thief has stolen there are no more loaves left in the

bakery. What was the total no of loaves did the bakery have at the beginning.

Ans: 31.

26. A person needs 6 steps to cover a distance of one slab. If he increases his foot length (step length) by 3 inches he

needs only 5 steps to cover the slabs length. What is the length of the each slab.

Ans: 31 inches.

27. There are 19 red balls and one black ball. Ten balls are put in one jar and the remaining 10 are put in another jar.

What is the possibility that the black is in the right jar.

Ans: $\frac{1}{2}$.

28. There is one lily in the pond on 1st june . There are two in the pond on 2nd june . There are four on 3rd june and

so on. The pond is full with lilies by the end of the june .

(i) On which date the pond is half full?

Ans: 29th.

29. A lorry starts from Banglore to Mysore at 6.00 A.M, 7.00 A.M, 8.00 am.....10 pm. Similarly one another starts

from Mysore to Banglore at 6.00 am,7.00 am, 8.00 am.....10.00pm. A lorry takes 9 hours to travel from

Banglore to Mysore and vice versa.

(i) A lorry which has started at 6.00 am will cross how many lorries.

Ans: 10.

30. A person meets a train at a railway station coming daily at a particular time . One day he is late by 25 minutes, and

he meets the train 5 k.m. before the station. If his speed is 12 kmph, what is the speed of the train ?

Ans: 60 kmph