|  |  |
| --- | --- |
| The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday  what is the average number of cups sold by shop A and shop C on Tuesday?  **sol:**  **(30+50)/2=40** | |
| (a) 20 | (c) 60 |
| (b) 30 | **(d)40** |
| The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday  Number of cups sold by shop B on Tuesday is what percentage more than the number of cups sold by same shop on Monday?  **sol:**  **(75-60)/60\*100**  **15/60\*100**  **25%** | |
| (a) 35% | **(c) 25%** |
| (b) 50% | (d)60% |
| The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday  How many cups sold on Monday by all the three shops together ?  **sol:**  **55+60+25**  **140** | |
| (a) 120 | (c) 130 |
| (b) 150 | **(d)140** |
| The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday  If number of cups sold by shop A on Wednesday was 20% more than that sold on Monday , how many cups were sold by shop A on Wednesday ?  **sol:**  **A on Wednesday =20% more than on Monday**  **55+11=66** | |
| (a) 55 | **(c) 66** |
| (b) 44 | (d)33 |
| The chart below shows the number of cups sold by three different shops on A ,B,C on Monday , Tuesday , Wednesday  what is the difference between number of cups sold by shop A and shop C on Tuesday together and B and C on Monday together?  **sol:**  **80-85**  **5** | |
| (a) 4 | (c) 2 |
| **(b) 5** | (d)6 |
| What is the angle between minute hand and hour hand at 2.25?  **sol:**  **300+300+35min**  **300+300+17.50**  **77.50** | |
| (a) 66.50 | (c) 86.50 |
| (b) 76.50 | **(d) 77.50** |
| What is the angle between minute hand and hour hand at 11.45?  **sol:**  **300+300+45min**  **82.50** | |
| (a) 66.50 | **(c) 82.50** |
| (b) 51.50 | (d) 88.50 |
| At what time between 9o clock and 10 o clock , will the hands of a clock be together?  **sol:**  **55=60**  **45=x**  **x=(45\*60)/55**  **49 1/11 past 9** | |
| (a) **49 1/11 past 9** | (c) 22 1/11 past 10 |
| (b) 30 1/11 past 9 | (d) 10 1/11 past 12 |
| At what time between 3 o clock and 4 o clock the hands of the clock be in opposite direction  **sol:**  **55=60**  **45=x**  **x=(60\*450)/55**  **49 1/11part 3** | |
| (a) 20 1/11part 4 | (c) 10 1/11part 5 |
| (b) **49 1/11part 3** | (d) 12 1/11part 6 |
| How many degree does a 5 minute space have in it ? | |
| (a) 600 | **(c) 300** |
| (b) 500 | (d) 400 |
| What was the day of week on 29th April 1875?  **sol:**  **1600+200+74+(month upto march+ april 28 days)**  **0+3+36+56+6**  **0+3+1+0+6**  **10**  **3rd day=Wednesday** | |
| **(a) Wednesday** | (c) Thursday |
| (b) Tuesday | (d)Friday |
| If 20 th may 1990 is Friday then what was the day on 10 th june 1995 ?  sol:  20 th may 1990 – Friday +1+1+2+1+1🡺Friday+6=20 th may 1995=Thursday  10 th june 1995 = 20 th may +4 +3    =Thursday + 7 🡺Thursday | |
| (a) Wednesday | **(c) Thursday** |
| (b) Tuesday | (d)Friday |
| Today is Sunday , find the day after 79 days?  sol:  odd days =2 days so Sunday+2 days =Tuesday | |
| (a) Sunday | **(c) Tuesday** |
| (b) Thursday | (d)Friday |
| 11th January 1997 was a Sunday . W hat day of the week lies on 7th jan 2000?  sol:  11 th may 1997 – sunday +1+1+1🡺Wednesday-4=7 th jan 2000=Saturday | |
| **(a) Saturday** | (c) Wednesday |
| (b) Monday | (d)Sunday |
| Prem’s birthday is on 23rd oct 2003 , Kathir born 5 days ahead of Prem , on which day does Kathir born?  sol:  23rd oct 2003 =2000+2+(2)🡺4=4th day =Thursday  5 days ahead of Thursday is  Tuesday | |
| (a) Wednesday | (c) Thursday |
| **(b) Tuesday** | (d)Friday |
| Find the missing number  21,36,66,126,---,486  Ans:  246  Sol: | |
| (a) 314 | **(c) 246** |
| (b) 266 | (d)276 |
| 20,---,30,60,150,450  **Ans:**  **20**  **Sol:** | |
| (a) 15 | (c) 25 |
| **(b) 20** | (d)40 |
| 15,26,39,56,---,98  Ans:  75  Sol: | |
| (a) 85 | **(c) 75** |
| (b) 65 | (d)95 |
| 520,519,511,---,420,295  **Ans:**  **484**  **sol:** | |
| (a) 474 | (c) 464 |
| **(b) 484** | (d)454 |
| 4,8,24,---,480,2880  **Ans:**  **96**  **sol:** | |
| (a) 86 | (c) 76 |
| (b) 106 | **(d)96** |
| Find the simple interest for the sum of Rs 70000 at the rate of 30% per annum for 48 months  Ans: 84000  Sol:  R=28% for three years 28\*3(36 months)=84 %  100%=70000  120%=84000 | |
| (a) 45789 | (c) 20500 |
| (b) 45874 | (d)84000 |
| Tamil borrowed Rs 110000 from his friend Dharma at 8% simple interest per annum and due to his financial situation he gives back his amount after 10 years , so find the total amount settled by Tamil to Dharma at the end of 10 years  Ans:  198000 Sol:  R=8% for 10 years 80%  so  100%=110000  180%=198000 | |
| (a) 184792 | (c) 198000 |
| (b) 120145 | (d)40000 |
| A certain sum of money amounts to Rs 4235 in three years when invested at 18% pa simple interest , find the principle ?  Ans:  2750  R=18%\*3=54%  154%=4235  100%=2750 | |
| (a) 3750 | (c) 2450 |
| (b) 2750 | (d)3130 |
| Dravid invested Rs 7000 for 2 years in a scheme offering simple interest of 16% pa and he invested same sum in another scheme offering 20% simple interest pa for 2 years , find the difference in interest  Ans:  560  Sol:  32%-40%=8%  100%=7000  8%=560 | |
| (a)460 | (c) 90 |
| (b) 560 | (d)240 |
| The simple interest received , after 6 years on investing Rs 24000 at the rate of 25% is invested in a bank that offers 30% pa , then find the total amount received from the bank after 5 years  Ans:90000  Sol:  100%=24000  150%=36000(si at 25% for 6 yrs)  100%=36000  250%=90000(total amount at 30% for 5 years) | |
| (a) 80000 | (c) 90000 |
| (b) 50000 | (d)60000 |
| Find the interest received for the sum of Rs 50000 invested at 10% pa for 2 years compounded annually  Ans:10500  Sol:  10+10+(10\*10)/100=21%  100%=50000  21%=10500 | |
| (a) 14200 | (c) 10500 |
| (b) 15200 | (d)11200 |
| Jeevitha receieved a total amount of Rs 84500 from a bank which he invested 2 years ago at the rate of 30% pa compounded annually , find the principle amount he invested in the bank ? Ans;  50000  Sol:  30% for 2 yrs is 69%  169%=84500  100%=50000 | |
| (a) 60000 | (c) 40000 |
| (b) 50000 | (d)30000 |
| Nagalakshmi invested Rs 20000 each in two schemes , first scheme offers 20% pa simple interest for 2 years and second scheme offers 30% compound interest per annum for 2 years , find the difference in interest she received .  Ans:5800  SI=40%(2yrs)  CI=69%(2 yrs)  Diff =29%  100%=20000  29%=5800 | |
| (a) 4800 | (c) 6800 |
| (b) 3800 | (d)5800 |
| Rs P amounts to Rs 3927 in two years if it is invested in a scheme which offers compound interest (compounded annually) of 5% pa and 10% pa in first year and second year respectively , Find the value of P  Ans:  3400  Sol:  interest for two years is 15.5%  115.5%=3927  100 %=3400 | |
| (a) 2500 | (c) 6500 |
| (b) 8100 | (d)3400 |
| 10000 for 2 years at compound interest of 10%pa , compounded annually is equal to the total amount received on investing Rs Y for 1 year at simple interest of 25% pa .Find the value of Y  Ans:  9680  Sol:  CI:  10000=100%  12100=121%(21% CI for 2 years )  SI  12100=125%  9680=100% | |
| (a) 9680 | (c) 8687 |
| (b) 9784 | (d)10254 |
| Ans:  **(b) both i and iii follows**  **Sol:** | |
| (a) only i follows | (c) only ii follows |
| **(b) both i and iii follows** | (d) Neither i nor ii follows |
| Ans:  **(d) Neither i nor ii follows** | |
| (a) only i follows | (c) only ii follows |
| (b) both i and ii follows | **(d) Neither i nor ii follows** |
| Ans:  **(c) only ii follows**  **Sol:** | |
| (a) only i follows | **(c) only ii follows** |
| (b) both i and ii follows | (d) Neither i nor ii follows |
| Ans:  **(c) only iii follows** | |
| (a) only i follows | **(c) only iii follows** |
| (b) both i and ii follows | (d) Neither i nor ii follows |
| Ans:  **only ii follows** | |
| (a) only i follows | **(c) only ii follows** |
| (b) both i and ii follows | (d) Neither i nor ii follows |
| Ans:  **(a) only i follows**  **Sol:** | |
| **(a) only i follows** | (c) only ii follows |
| (b) both i and ii follows | (d) Neither i nor ii follows |
| Ans: **(d) Neither i nor ii follows**  **Sol:** | |
| (a) only i follows | (c) only ii follows |
| Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D  values are :  SWEATERS  A =124 B=152 C =176 D=80  JACKETS  A =146 B =72 C= 98 D=128  Find the difference between the winter wears sold by shop A and shop C  **sol:**  **(124+146)-(176+98)=274-270**  **=4** | **(d) Neither i nor ii follows** |
| (a) 3 | (c) 2 |
| **(b) 4** | (d)1 |
| Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D  values are :  SWEATERS  A =124 B=152 C =176 D=80  JACKETS  A =146 B =72 C= 98 D=128  Find the average number of sweaters sold ?  **sol:**  **(124+152+176+80)/4=532=133** |  |
| (a) 123 | (c) 113 |
| (b) 143 | **(d)133** |
| Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D  values are :  SWEATERS  A =124 B=152 C =176 D=80  JACKETS  A =146 B =72 C= 98 D=128  The number of jackets sold by shop D is what percent of num of jackets sold by shop B and C combined ?  **sol:**  **128/(72+98)\*100**  **128/170\*100**  **75.3%** |  |
| (a) 65.3% | (c) 62.3% |
| (b) 81.7% | **(d)75.3%** |
| Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D  values are :  SWEATERS  A =124 B=152 C =176 D=80  JACKETS  A =146 B =72 C= 98 D=128  find the ratio of number of winter wears sold by shop B to that of shop D  **sol:**  **224:208 ; 14:13** |  |
| (a) 13:15 | **(c) 14:13** |
| (b) 17:11 | (d)11:12 |
| Line graph shows the number of winter wears ( sweaters and jackets)sold by A,B,C,D  values are :  SWEATERS  A =124 B=152 C =176 D=80  JACKETS  A =146 B =72 C= 98 D=128  The number of shawls sold by shop E is 3/8th of number of sweaters sold by shop B. Find the number of shawls sold by shop E.  **sol:**  **3/8\*152 =57** |  |
| (a) 67 | (c) 77 |
| **(b) 57** | (d)45 |
| |  |  | | --- | --- | | What was the day of week on 5th october 1983 ?  sol:  1600+300+82+(months upto sep+5th oct)  0+1+40+62+5  3  3rd day=wednesday |  | | (a) Tuesday | **(c) Wednesday** | | (b) Thursday | (d)Friday | | What was the day of week on 14th may 1675?  sol:  1600+74+(month upto april+ may 14 days)  0+36+56+8  0+1+0+1  2  2nd day=Tuesday |  | | (a) Wednesday | (c) Thursday | | **(b) Tuesday** | (d)Friday | | If 20 th may 1990 is Friday then what was the day on 10 th june 1995 ?  sol:  20 th may 1990 – Friday +1+1+2+1+1🡺Friday+6=20 th may 1995=Thursday  10 th june 1995 = 20 th may +4 +3    =Thursday + 7 🡺Thursday |  | | (a) Wednesday | **(c) Thursday** | | (b) Tuesday | (d)Friday | | Today is Friday , find the day after 68 days?  sol:  odd days =5 days so Friday+5 days = Wednesday |  | | (a) Tuesday | **(c) Wednesday** | | (b) Thursday | (d)Friday | | 11th January 1997 was a Sunday . W hat day of the week lies on 7th jan 2000?  sol:  11 th may 1997 – sunday +1+1+1🡺Wednesday-4=7 th jan 2000=Saturday |  | | **(a) Saturday** | (c) Wednesday | | (b) Monday | (d)Sunday | | Naveen’s birthday is on 23rd oct 2003 , Shyam born 5 days ahead of Naveen , on which day does Shyam born?  sol:  23rd oct 2003 =2000+2+(2)🡺4=4th day =Thursday  5 days ahead of Thursday is  Tuesday |  | | (a) Wednesday | (c) Thursday | | **(b) Tuesday** | (d)Friday | | Find the wrong number  256 ,64,32,4,1,0.25  Ans:  32  sol:  1024/4=256  256/4=64  64/4=16 |  | | (a) 32 | (c) 1 | | (b) 4 | (d)64 | | Find the missing number  28,44,108,252,?,908  Ans:  508  sol:  28+4^2=44  44+8^2=108  108+12^2=252  252+16^2=508 |  | | (a) 508 | (c) 506 | | (b) 504 | (d)502 | | Find the missing number  475,446,477,440,?  Ans:  481  sol:  475-29=446  446+31=477  477-37=440  440+41=481 |  | | (a) 480 | (c) 481 | | (b) 483 | (d)484 | | (i) 2,8,20,38,62,X  (ii) 5,15,30,50,75,Y  What is X+Y?  Ans:  197  Sol:  x=92  y=105 x+y=197 |  | | (a) 187 | (c) 197 | | (b) 207 | (d)157 | |  |  | | |  |  | | --- | --- | | Ans:  (b) both i and ii follows  Sol: |  | | (a) only i follows | (c) only ii follows | | **(b) both i and ii follows** | (d) Neither i nor ii follows | | Ans:  **(d) Neither i nor ii follows**  **Sol:** |  | | (a) only i follows | (c) only ii follows | | (b) both i and ii follows | **(d) Neither i nor ii follows** | | Ans:  **(d) Neither i nor ii follows**  **Sol:** |  | | (a) only i follows | (c) only ii follows | | (b) both i and ii follows | **(d) Neither i nor ii follows** | | Ans:  **(b) both i and ii follows**  **Sol:** |  | | (a) only i follows | (c) only ii follows | | **(b) both i and ii follows** | (d) Neither i nor ii follows | | Ans:  **(c) only ii follows**  **Sol:** |  | | (a) only i follows | **(c) only ii follows** | | (b) both i and ii follows | (d) Neither i nor ii follows | | Ans:  **(b) both i and ii follows**  **Sol:** |  | | (a) only i follows | (c) only ii follows | | **(b) both i and ii follows**  Seven persons ( Sina, Siya, Sinu, Sanu, Shyam, Siri, and Sita) sit around a circular table facing towards centre but not necessarily in same order.  Sanu sits 2nd to the left of Siya. Shyam sit 2nd to the right of Siri. Shyam doesn’t sit adjacent to Siya. Two persons sit between Sinu and Sina. Sina doesn’t sit adjacent to Sanu. Two persons sit between Siya and Sita  Eight persons (Arti, Aarya, Babloo, Chaman, Diya, Diksha, Era and Farhan ) sit around a circular table facing towards centre but not necessarily in the same order.The person who has the same initials do not sit adjacent to each other.  Two persons sit between Aarya and Babloo. Two persons sit between Babloo and Chaman. Arti sits adjacent to Chaman. Diksha doesn’t sit adjacent to Babloo. Farhan sits 2nd to the left of Diksha. Neither Era nor Diya sits 2nd to the right of Chaman | (d) Neither i nor ii follows | | (c) 20500 | |  | (d)50400 | |  |  | |  | (c) 198000 | |  | (d)40000 | |  |  | |  | (c) 2450 | |  | (d)3130 | |  |  | |  | (c) 90 | |  | (d)240 | |  |  | |  | (c) 90000 | |  | (d)60000 | |  |  | |  | (c) 13200 | |  | (d)11200 | |  |  | |  | (c) 40000 | |  | (d)30000 | |  |  | |  | (c) 6800 | |  | (d)5800 | |  |  | |  | (c) 6500 | |  | (d)3400 | |  |  | |  | (c) 8687 | |  | (d)10254 | |  |
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