Calendar Ordinary Lear - has 365 days = 52x7+1

Leaf Lear - has 366 days = 52x7+2

every year divisible by 4 is a leaf yr, of it is

every century divisible by 400 is a leaf yr. Odd days - number of days more than the complete counting Odd days · 1 ordinary year = 365 days = 52 weeks + 1 day = 1 odd day · I leap year = 366 days = 52 weeks + 2 days = 2 odd day. 100 years = 76 ordinary years + 24 leap yrs? (76×1+24×2) odd days = 124 odd days = 17 weeks + 5 days = 50 and days. Number of odd days in 100 yrs = 5 Number of odd days in 200 yrs = 5x2 = 10 => 3 odd day Number of odd dags in 300 yrs = 5x3=15=7x2+1=10d20 Number of odd days in 400 48 = 5 X4+1=21 = 0 odd days. Day of the Week Related to odd days
Sunday Monday Tuesday Wednesday Thursday Friday (Saturday) Calendar will be repeated after not not to leap yr = + 28 yrs, not to leap yr = + 6 yrs
not not to leap yr = + 11 yrs, before leap yr = + 11 yrs. Day Finder f= k+[13m-1]+D+[1]+[1]+[1]-2XC Hear = X1X2 Y1/2 C = X1X2 D = Y1/2 m => March = 1, April = 2 - - - Jan = 11, Feb = 12 If m = 11 or 12 (Jen or feb) D should be taken as D-1 [] = greatest integer [3.27]=3 k = date, f. = odd days.

1) find the day of the week on U) I January 1802 @ Today is Sunday. Day after 64 days will be Man 3 May 3, 1993 was Monday. Day on May 3, 1972 was burday (4) which year will have same calendar as 1981 1987 @ Day or 15th Aug 1947 in failey 6) Year next to 1996 having same calendar is 2024 a Bay of the week on @ 12th Lamuary 1979 @ Wed @ Thur @ Fri @ Sat 15 July 1901 @ Wed 6 Ther 1 Mon 1 Tues @ 17 feb 1115 @ Tues @ Thur @ Sunday @ Wed @ 00 what dates of July 2004, did Monday fall @ 4,11,18,25 @ 5,92,19,26 @ 1,8,15,22 @ none of these. (E) 17th March of a leap yr falls on Sunday (2024), what would be the day on 28th March of nxt yr. (F) Hear next to 2007 having same calender is @ 2035 @ 2013 @ 2018 @ 2050 (9) If 9/12/2001 happens to be Sunday, then 9/12/197. Would have been @ Wed @ Tues @ Saturday @ Thurs (4) Day of the week on 1st January 2010 @ fri 6 saturday O sunday (1) monday (I) If 29th feb of a year falls on Saturday, what would be the day on 31st December of that year.

(a) fri (b) Saturday (a) Thurs (a) West. If the seventh day of the month is three days earlier than friday what day will it be on the nineteenth day of the month I Mon (R) Today in Widnesday, what will be the day after 94 days @ Mon Dwed Ofri Dsun of DIf Loth August is Thursday, number of Mondays in that month is @ 2 6 3 04 @ 5

> Angeler value of a minute = 30°/5 = 6°

> Angular value of a minute = 30°/5 = 6°

> speed of minute hand = minute hand travels 360° in

> speed of hour hand = an hour hand travels 30° in an

> speed of hour hand = an hour hand travels 30° in an

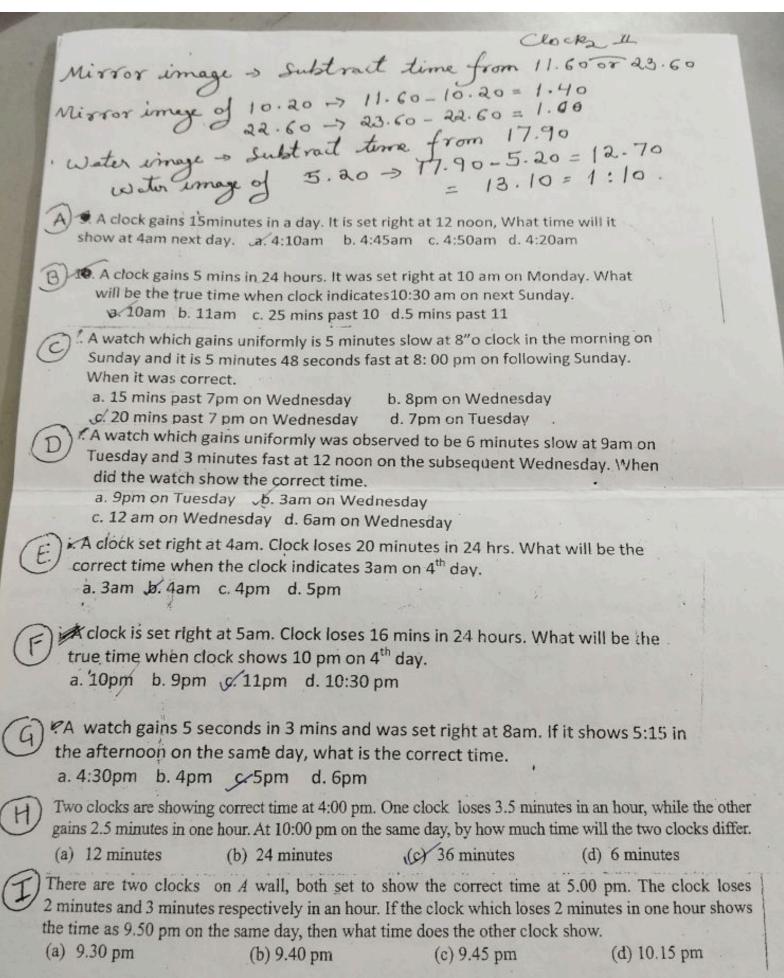
hour se speed = 30°/60 = (1/2)° foer minute. Clocks (A) → Angle o between hands of a clock of = [ 11m - 30h] @ Angle between minute hand and hour hand at 5.30 But what time between 3 & 40' clock hands makes an angle of 10°. of clock well point towards opposite ness but will be in straight line. Dat what time between 2 and 30 clock will hands of a clock together. Est what time between 5 and 6 o clock are hands of a clock, 3 minutes apart.

Brangle between hands when time is 3.25

G. In 16 minutes, minute hand guins over the How many degrees will minute hand move in the same time in which second hand move I) A clock is started at noon. By 10 minutes part 5, hour hand has twomed through. Tilf hour hand of a clock moves by 18° then by how many degrees does munute thand move during the same time.

			Locks	
O. How m	many times do the lands of A cloc	k coincide in A day		
(a) 20	(0) 22	(0) 24	(d) 11	
2). What is	the angle covered by the minute		4.D. 2200	
(a) 66°	b) 110°	(c) 132°	(d) 220°	
	many degrees does an hour hand		(d) 12.5°	
(a) 5°	(b) 7.5°	(c) 10°		es 6°.
	nany degrees will the minute har (b) 84°	(c) 72°	(d) 60°	
(a) 54°	clock shows 3 hours 14 minute			
(a) 10°	(b) 13°	(c) 16°	(d) 19°	
	nie between 9 and 10'O clock v			n.
(a) 45 mi	and the second s		t 9 (d) $48\frac{2}{11}$ mins p	
At what the together.	me between 7 and 8'O clock			
	2 2	5	3 ·	et 7
(a) 5 mins	s past 7 (b) $5\frac{2}{11}$ mins r	past $I$ (c) $5\frac{11}{11}$ mins p	past / (a) 3 11 mm = P	131.7
(8). What is the	e angle between hands of the	clock, when it shows 4 · 2	0 pm	
(a) 0°	(b) 10°	(c) 20°	(c) 30°	
	e angle between the hands of t	AND REAL PROPERTY AND ADDRESS OF THE PARTY AND		1
			minutes past 6.	
(a) 40°	(b) 70°	(c) 80°	(c) 100°	
rotate when	te clock shows 8 O'clock in the clock shows 2 O'clock in	he morning. Through how the afternoon?	w many degrees will the h	our hand
(a) 144°	· (b) 750°	(c) 168°	(c) 1000	FAT I
	ne between 4 and 5°O clock ar		(c) 180°	
(a) $52\frac{3}{11}$ n	nins past 4'O clock	(b) $54\frac{6}{11}$ mins past 4'(d) $58\frac{2}{11}$ mins past 4'(	O clock	
(c) 51 -7 m	nins past 4'O clock	(d) $58 \frac{2}{}$ mins past 4'(	O clock	
- 11		11	7.000k	
				-
(1) If the second	is hand moves by 240°, then	by how many degrees d	oes the minute hand mo	ye in . sar
direction.		A STATE OF THE STA		
(9) 20	(b) 3°	(c) 4°	(d) 6°	
	in minutes between 8 and 9			937
			The state of the s	
(a) $43 \frac{11}{11}$ mi	ins (b) 40 mins	(c) 44 <u>11</u> mir	$\frac{1}{11} = \frac{1}{11} $	ins
100111000	1-6,2-	· c, 3-6,	4-6,5-	6
- Uramara	, , , ,	1!	0	1
	6-6, 1-	19-61	9-0,10	-d
			The second secon	

11-b, 12-c, 13-d



OA clock shows 10.00. When time is 22.00, by what degree the hour hand rotates @180@175@240@360 A clock shows 10.00 am, what time it will be showing if hour hand rotates for 180° @ 16m \$66 pm \$4pm \$10 pm Est what time between 6 am a 7 arm will the minute hand and hour hand of clock make an angle closest by 60°.

© 6.22 am © 6.27 m © 6.38 am © 6.45 arm. @ At what time between I and 2'o clock will hands of a clock makes an angle of 180. Ock makes an angle of 40 mins past 1

© 35(5/11) mins past 1 @ 38(2/11) mins past 1

© 50(4/11) mins past 1 @ 38(2/11) mins past 1

That what time between 6 and 7 are hands of a clock

8 mins apart @ 24 mins past 6 @ 21 mins past 6 @ 18 mlna 6 @ 20 muna part 6 (8) A clock is set right at 8 am. Clack gains 10 mina in 24 hours. What will be the true time when clock indicates 1 fm on the following day.
@12:48 @ 12:40 @12:54 @12.45 (6) 12.40 (c) 12.40 (c) 12.50 (c) 146.5° (c) 162.5° (c) A clock garres 20 seconds for every 3 hows of time. If clock is set at a correct time of Larm on friday what would it indicate at 6.30 fm, Saturday. @ 6:32:46 @ 6:34:30 @ 6:38:56 12 Mirror emage of a watch at 12.10 @ 11.60. @ 11.50 @ 1:10 @ 11.40

13) Time in clock is 3:13, what time will appear in water @ 3:17 @ 2:17 @ 3:23 @ 2:13 4) Angle made by hour hand in 36 secs @ 120 6 3.0 (3) @ (10)

Chain Rule (36 men complete a frece of work in 18 days. In how many days will 27 men complete the same work (24) and 10 days.

(21 n a day farm, 40 cows ext 40 bags of hurk in 40 days.

In how many days one cow will ent one 15mg of hurk (40)

In how many days one row will ent one 15mg of hurk (40)

(3 If the wages of 6 men for 15 days be 12 2100, then fund

(3 If the wages of 9 men for 12 days. (2520)

the wages of 9 men for 12 days. (2520)

the wages of 4 men for 12 days. (2520)

the wages of 4 men for 12 days. (2520)

the wages of 4 men for 12 days. (450)

(6 days, in how many days will 18 men real the field working 8 hows a day 80 hectores in 24 days, then

(5) If 8 men can reals 80 hectores in 24 days, then The fort had provision of food for 150 men for 45 days for the fort Number of days for the fort Number of days for thich the remaining food will last is (429 & days of a fort had provisions for 450 men for 80 days for the fort had provisions for 450 men for 80 days. The load provisions for 450 men for 80 days. The load provisions for 450 men for 80 days. The load provisions for 450 men for 80 days. The load last at same rate (63) 8 If 5 men or 9 worken can do a friele of work in J19 days, then in how many days will 3 men and 6 women do the same work (15) (15)

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(18) O A contractor undertakes to build a well 1000mt long in 50 days. He employs 56 men but at the end of 29 days, he sonds that only 448 mt the end of 29 days, he sonds that only 448 mt of well is built. How many extra men must of well is completed in time (25) 1) A contractor undertakes to funish a certain work in 124 days and employed 120 men work in 124 days and employed 120 men After 64 days, he found that he had already dane (2/3) of the work How many men can be descharged so that work may funsh in be descharged so that work may funsh in GHAIN KULE

	12- 11/2- 11/2-X
9-5 9-8 0-0 9-19	-0/p-N/p-W/9-7/0-X/ 1/0-7/0-0/9-7/2-9/p-y/-asmen
10-C/9-IMP-H/0-b/9-	7 (2-3/2-6, 12-6, 12-6, 12-6, 1-d) F
	( ) ( ) ( ) ( ) ( ) ( )
$\frac{1}{6} (b) \qquad \frac{1}{6} 8 (b) \qquad \frac{1}{6} \Gamma (d) \qquad \delta (b)$	umps, working 8 hours a day, can empty a tank in 2 days. How many hours a day st 4 pumps work to empty the tank in 1 day?
working together for 8 hours a day?	
If 3 men or 6 boys can do a piece of work in 10 days, working 7 hours a day; hor days will it take to compete a piece of work twice as large with 6 men and	11 30 persons, working 6 hours a day, complete the work?
06 (b) 84 (a) 24 (d) 08 (g)	persons can repair a road in 12 days, working 5 hours a day In how many days
to do twice the work in 50 days, working 9 hours a day?	8) 15 days (b) 25 days (c) (c) 85 days
a man works equal to 2 boys, then how many boys will be required to help 2	(H) 18U1 SEM STOOL
12 men and 18 boys, working $7\frac{1}{2}$ hours a day, can do a piece of work in 60 da	desert and it is found that the provisions will now last just as long as before. How
7 (D) \$ 7 (D) \$ 7 (D)	A garrison had provisions for a certain number of days. After 10 days, $\frac{1}{6}$ of the men
$\frac{I}{2}I(b) \qquad \frac{g}{h}I(b) \qquad \frac{I}{h}I(d) \qquad I(B)$	Z (2) (2)
employed 5 men more and the work was finished one day earlier How many days, would have been behind, if he had not employed additional men?	81 (P) \(\frac{1}{a}\triangle \tau_1 \tau_2 \tau_2 \tau_2 \tau_3 \tau_2 \tau_3 \tau_3 \tau_2 \tau_3
A contractor employed 30 men to do a piece of work in 38 days 45 and 1	men arrived. For how many more days will the remaining food last now?
e (b) 8 (c) 8 (s)	A garrison of 500 men had provisions for 27 days. After 3 days a reinforcement of 300
he had not engaged the additional men, how many days behind schedule would it be finished?	(a) None of these
A contractor undertakes to do a piece of work in 40 days. He engages 100 men at the beginning and 100 more after 35 days and completes the work in stipulated time. If he had not engaged the additional men and completes the work in stipulated time. If	In a camp, 95 men had provisions for 200 days. After 5 days, 30 men left the camp. For how many days will the remaining food last now?
A contractor undertakes to do (a) 18 (d) 24	(1 (P)
number of men, but 6 of them being absent from the very first day, the rest coald unish the work in 15 days. The number of men originally employed were:  (a) 12	171
number of men but 6 of the a certain piece of work in 9 days. He employed certain	If 18 binders bind 900 books in 10 days, how many binders will be required to bind (a) 20
(1)	(1 (4)
15 men take 21 days of 8 hours each to do a piece of work thow many days of 6 hours each would 21 women take, if 3 women do as much work as 2 men 3 (a) 18	be employed to finish the rest of the work in 20 days. How many more men should (a) 10
TER (2) ( IAL) OVET (AV)	
th L2 carpenters, working 6 hours a day, can make 460 chairs in 24 days, how many chairs will 18 carpenters make in 36 days, each working a layer many	more labourers should be engaged to dig a similar ditch 39 m long in 6 days, each labourer working 9 hours a day?  (a) 34  (b) 51
1 Aven to a second (7)	(1) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
many days will 16 pumps raise 2170 tonnes of water in 10 days, werking 7 rours a day, in how (a) 6 (b) 7 (c) 8	to examine twice the number of answer books in 30 days? (a) 6 (a) 6 (b) 8 (c) 6 (c) 6 (d) 6 (e) 6 (e) 6 (e) 6 (f) 7
64 (b) 2 2 2 2 2 3 1 H	(a) 6 (b) (c) 12 (d) 16  17 9 examiners can examine a certain number of answer books in 12 days, working to examine twice the number of answer books in 30 days? (a) 6 (b) 8
(a) 1 (b) $\frac{r}{2}$ (d) (7)	8 (d) 8 (g) 8 (d) 9 1 (e) 16 (e) 16 (d) 16 (d) 16 (d) 16 (e) 16 (
If 7 spiders make 7 webs in 7 days, then I spider will make I web in how many days?  (a) I (a)	4 mat-weavers can weave 4 mats in 4 days. At the same rate, how many made would be woven by 8 mat-weavers in 8 days?

## AGES

Formulas and Quick Tricks for Age Problems If the current age is x, then n times the age is nx. If the current age is x, then age n years later/hence = x + n. If the current age is x, then age n years ago = x - n. The ages in a ratio a: b will be ax and bx. If the current age is x, then 1/n of the age is x/n

- 1. Difference between ages of Meena and Seema is 3yrs and ratio between their ages is 7:8. What is the sum of their ages. (45)
  - 2. Present ages of X and Y are in the ratio 5:6 respectively. Seven years hence this ratio will (32) 6:7 respectively. What is X's present age in years ??
- 3. The ratio of father's age to son's age is 7:3. The product of their ages is 756. The ratio of their ages after 6 years will be (2:1)
- 4. A is two years older than B who is twice as old as C. If total of ages of A, B and C be 27, then (10)
  - 5. The age of father 10 years ago was thrice the age of his son. Ten years hence, father's age will be twice that of his son. The ratio of their present ages is (7:3)
    - 6. In 10 years ,A will be twice as old as B was 10 years ago. If A is now 9 years older than B, (39). the present age of B is
- 7. Shyam's age after 15 years will be 5 times his age 5 years back. What is his present age. d. 20 a. 5 b. 10 c. 15
- 8. The ages of two persons differ by 16 years. If 6 years ago, the elder one be 3 times as old as the younger one, find their present ages. a. 14,28 . 14,30 c. 15,30 d. 15,28
  - 9. The product of ages of Ankit and Nikita is 240. If twice the age of Nikita is more than a. 10 b. 11 12 d. 13 Ankit's age by 4 years, what is Nikita's age.
- years hence, father's age will be 10 years more than twice the age of the son, present age 10. The present age of a father is 3 years more than three times the age of his son. Three a. 30 b. 31 c. 32 df. 33
- 11. Rohit was 4 times as old as his son 8 years ago. After 8 years, Rohit will be twice as old as his son, what are their present ages. a. 15,40 \( \begin{array}{c} \begin{array}{c} \dots \eqric{16},40 \end{array} \quad \text{d. 15,41} \\ \dots \end{array} \]
  - 12. Abhay's age after 6 years will be three seventh of his father's age. Ten years ago, the ratio of their ages was 1:5. What is Abhay's father's age at present.
    - 13. The ratio of present ages of two brothers is 1:2 and 5 years back, the ratio was 1:3. What will be the ratio of their ages after 5 years. a. 1:4 b. 2:3 & 35 d. 5:6 a. 40 b. 60 o. 50 d. 100
- twice as old as his son. Sum of present ages of son and father is a. 54 b. 72 c. 105, d. 108 14. Eighteen years ago, a father was three times as old as his son. Now the father is only

15. Father is aged three times more than his son Ronit. After 8 years , he would be two and a of Ronit's age. half times of Ronit's age. After further 8 years , how many times would he be , a. 2 times b. 2.5 c. 2.75 d. 3 times

16. Jayesh is much younger to Anil as he is older to Prashant. If the sum of the ages of Anil and Prashant is 48 years, what is the age of Jayesh. a. 20 b. 24 c. 30 d. 36

17. If 6 years are added to 15 times Niru's age, we obtain his grandmother's age. If his grandmother's age is 66 years, then the age of Niru's is a. 1 b. 3 c. 2 d. 4

18. The average age of 8 men increases by 2 years when two women are included in place of two men of ages 20 and 24 years. Find the average age of the women?

A. 18 years B. 24 years .C. 30 years D. 36 years

19. Mohan correctly remembers that his father's birthday is before 20th January but after 16th January but before 23rd January. On which date in January is definitely their father's January, whereas his sister correctly remembers that their father's bi-thday is after 18th A. 18th B. 19th C. 20th D. Missing data

20. 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 & 40 years C. 45 years D. 55 years

21. A is 2 years older, than B who is twice as old as C. If the total of the ages of A, B and C be then how old is B? A. 7 years B. 8 years C. 9 years D. 10 years

22. A person's present age is two-fifth of the age of his mother. After 8 years, he will be onehalf of the age of his mother. How old id the mother at present?

A. 32 years B. 36 years C. 40 years D. 48 years

23. The total age of A and B is 12 years more than the total age of B and C. C is how many years younger than A? A. 12 B. 24 C. C is elder than A D. Da:a inadequate

24. A father said to his son, 'I was as old as you are at present at the time of your birth.' If the father's age is 38 years now, the son's age five years back was:

A. 14 years B. 19 years C. 33 years D. 38 years

25.A person was asked to state his age in years. His reply was, 'Take my age three years hence, multiply it by 3 and then subtract three times my age three years ago and you will how old I am.' What was the age of the person?

4. 18 years B. 20 years C. 24 years D. 32 years

26. The sum of the ages of a son and father is 56 years after four years the age of the father A. 12 years, 44 years will be three times that of the son. Their ages respectively are:

27. Ayesha's father was 38 years of age when she was born while her mother was 36 years old when her brother four years younger to her was born. What is the difference between the ages of her parents. a. 2 b. 4 c. 6 d. 8 years B. 16 years, 42 years C. 16 years, 48 years D. 18 years, 36 years

Roll No: 18

1. Last day of the century cannot be

2. The present age of Satya is three times the age of his son. Six years hence, the ratio of their ages will be 5:2. Present age of Satya a. 48 b. 50 pc. 54 d. 60 a. Monday b. Wednesday c. Tuesday d. Friday

3. What is the angle between hands of a clock, when it shows 4:20 pm. a.  $0^{\circ}$  Jr.  $10^{\circ}$  c.  $20^{\circ}$  d.  $30^{\circ}$ 

4. A garrison of 500 men had provisions for 27 days. After 3 days a

reinforcement of 300 men arrived. For how many more days will the remaining food last now. 2.15 b. 16 c. 17.5 d. 18

5. Ratio of ages of Tina and Rakesh is 9:10 respectively. Ten years ago, the ratio of their ages was 4:5 respectively. Present age of Rakesh.

a. 18 3.20 c. 24 d. 28

What will be the day of the week on 15th August 2010

a.Sunday b. Monday c. Tuesday d. Friday

hence, twice his age will be equal to five times the age of his son. Present age of the son a. 12 b. 13 ve. 14 d. 15 7. Ten years ago, a man was seven times as old as his son. Two years

8. How many days are there in x weeks x days

a.  $7x^2$  /b. 8x c. 14x d. 7

same straight line but not together. required to bind 800 books in 20 days. a. 7 b. 9 c. 12 d. 14 10. At what time between 7 and 8' o clock will the hands of a clock be in 9. 21 binders can bind 1400 books in 15 days. How many binders will be

a. 5 mins past 7 b. 5(2/11) mins past 7

(5/11) mins past 7 d. 5(3/11) mins past 7

13. Which of these is not a leap year? and 13 women earn per day. a.11600 b. 11700 c. 16100 d. 17100 12. 5 men or 7 women can earn Rs 5250 per day, how much would 7 men hundred spiders catch in 100 minutes. a.100 b. 500 11. If 5 spiders can catch five flies in five minutes, how many flies can c. 1000 vd. 2000

b.2096 ve.2100 d. 2104

the day on 31st December of the same year? 14.If on 29th February of a leap year falls a monday, then what would be

age 6 years ago? 16. One year ago, the ratio of Parul and Atima's age was 5:6 respectively, 15. What is John's present age, if 10 years later his age will be 5 times his a. Monday b. Saturday c. Thursday a.12 years b.7 years c.8 years \d.10 years d.Sunday

after 4 years, the ratio becomes 6:7. Find the present age of Atima. a.66 degrees What is the angle covered by the minute hand in 22 minutes a.25 years b.26 years £.31 years b.110 degrees \$\square\$/132 degrees d.220 degrees d.35 years

will be the true time when clock shows 10 pm on 4th day. 18. A clock is set right at 5am. Clock loses 16 mins in 24 hours. What d. 10:30pm

a. 10 pm b. 9 pm c. 11pm

19. Calendar for the year 2007 will be same for the year

a. 2014 b. 2016 c. 2017 d. 2018

earlier. How many days he would have been behind, if he had not 20. A contractor employed 30 men to do a piece of work in 38 days. After 25 days, he employed 5 men more and the work was finished one day

many days of 6 hours each would 21 women take, if 3 women do as much 21. 15 men take 21 days of 8 hours each to do a piece of work. How employed additional men. a. 18 b. 20 a. 1 c, 25 d. 30 b. 5/4 c. 7/4

Find his age 3 years hence. A's age after 15 years would be equal to 5 times his age 5 years ago. d his age 3 years hence. a. 10 b. 13 c. 14 d. 15

23. The day on 2nd April 1901 was: a. Monday b.Tuesday c.Thursday d. Friday

24. Today it is Sunday, day after 55 days will be what?

b. Saturday c. Thursday d. Sunday

is 4 mins 48 secs fast at 2 pm on following Monday. When was it correct? Watch which gains uniformly is 2 mins slow at noon on Monday and

a. Wednesday 2 PM b. Wednesday 3 PM

Wednesday 2:30 PM d. Wednesday 1:40 PM

day on 28th March of the next year? 26. 7th March of a leap year falls on Sunday (2024), what would be the

a. Friday b.Saturday c. Monday d. Sunday

ago their age ratio was 4:6? 27. . Shivani is 60 years old and Ritu is 80 years old. How many years

a. 10 years b. 15 years c. 20 years d.25 years

29. At what time between 6 and 7 are the hands of a clock 8 minutes years back, the ratio of their ages was 2:3. What is the present age of Aradhana? a. 12 years b. 22 28. The present age of Aradhana and Aadrika is in the ratio 3:4. 5 c. 15 years d.20 years

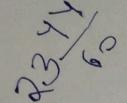
turned through a. 155 b. 110 c. 100 d. 90 30. A clock is started at 2pm. By 20 minutes past 5, the hour hand has a. 24 min past 6 b. B. 21 min past 6 c.18min past 6 .d. 20 min past 6

31. On what dates of July. 2004 did Monday fall?

a. 6th, 10th, 21th, 30<sup>th</sup> b.. 12th, 7th, 19th, 28th c. 5th, 10th, 24th, 17<sup>th</sup> d.. 5th, 12th, 19th, 26th

between Sara's age 4 years hence and Vaishali's age 4 years ago. years is 1: 1. Presently, the ratio of their ages is 5: 3. Find the ratio 32. 10. The ratio of Sara's age 4 years ago and Vaishali's age after 4

a. 1:3 b. 3:1 c. 4:3 d. 3:4



9) Man of Ext batamen makes a score of 87 runs in the 17th imming and thus increased his evering by 3. Average after 17th immings (34)

3. Average after 17th immings (34)

3. Average after 17th immings (34)

5. both leave the group several freight increase 5. both at a freight increase 5. both at a freight increase 6. A bus travels at 0 persons in a forth of 90 for 1th covers ment of 10 persons in a bout is who would be a self-aced by new man what at men of 50 observations was 36. It was found that an absence on 18. It was found that an absence on 18. Average of first 40 natural numbers (20.5)

O Average of four consecutive even numbers (20.5)

Long the of these numbers (30) is twice the first

ond is also three numbers (30) is twice the first

three numbers is 44. designent numbers of Just

three numbers is 58 and that of last six is

3. Sixth result (66) 1 gas ac (36.5)23. Corrected new

@ 9 Codil & 11 & D 11 & (a) Average of 2,7,6 and se is 5 and the average of 30 18,1,6,8 and y is 10. Value of y © 5 (b) 10 (a) 20 (b) 30 (c) Library has an average of 510 visitors on Sunday 6 240 or other days. Average number of visitors for day in a month of 30 days beginning with a Stinday day in a month of 30 days beginning with a Stinday of 285 (c) 250 (c) 276 (c) 280 (d) 285 (d) 250 weight of It the boys in dark @47.55@48@48.55@49 Delivage of 11 numbers is 10.9. If average of first six numbers is 11.4, middle number @ 11 @ 11.3 @ 11.4 @ 11.5 Deverage age of 36 students in a group is 14 years. When teachers age is included to it, average increases by one. Techers age in years @31 636 951 @50 Dof the four numbers whose average is 60, first in one fourth of the sum of last three first number in a 15 15 0 45 0.48 @ 60.25 wers 32. How many runs must be make in his next innings so as to increase his average of runs by 40 @ 2 64 @ 70 @ 76

Average of 7 consciutive numbers is 20. Largest of these Rumbers is @ 20 @ 22 @ 23 @ 240 A motorist travels to a place 150 km away at an overage speed of 50 km/hr and returns at 30 km/hr. I the average speed for the whole journey is @ 35 @ 37 @ 37.5 @ 40