

## Mock Test Number: 006

1. Raj writes a no of two digits exceeds four times the sum of its digits by three. If the number is increased by eighteen then the result is the same as the number form by reversing the digits find the number?

C. 49D. 57

Answer:

2. 28a+30b+31c=365 solve and find a, b, c & find a+b+c?

C. 12

Answer:

 George---8hrs Paul------10 hrs

Hari-----12 hrs

If all the three starts work at 9 am, at 11 George leaves how long it takes pawl and hari to complete the remaining work

A. 11:30am

B. 12:00pm

C. 12:30 pm D. 1:00 pm

Answer:

From, Till 11.00 
$$37 \times 2 = 74$$
 parts of work are glone.  $91,119+14$  .  $120-74=46$  units of work  $15+12+10=34$   $\frac{46}{22} \cong 26\pi$  so By 1.00 pm (approx.)

Find last two digits of (1941^3843)+(1961^4181)

Tomato and apple =4

Apple is less then lemon by 8

I+8=a, b) I+a=12, c) t+I=4, d) I+8=a

C. 3

D. 4

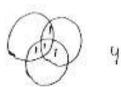
Answer:

6. An organization has three committees only two people are common for all three committees but every pair committee has 3 members in common what is least possible of members in one committee

C. 6

D. 7

Answer:



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Decode MKIGE

A. 11 13 14 5 9

B. 5571412

C. 1311976

Answer:

8. 641+852+973=2456 is incorrect which is the largest number that has to be changed to make the addition correct

A. 5

B. 5

Answer:

9. A circle has 29 points arranged in a clock wise manner, no for 0 to 28, a bug moves clockwise around the circle according to the following rule, if it is at a point on the circle. It moves clockwise around the circle, it moves clockwise in one second by (1+r) places, where r is the reminder when it is divided by 17. Thus if it is a point to 5, it moves clockwise in one second (1+5) places to point 11, similarly it is at position 28 it moves (1+11)→ twelve places to point 11 in one seconds if it starts from zero at what point it will be after 2012 seconds?

Answer: INJow If it is al position zero.

sec	1(1+2)	Stepto	as.	C	V200 FED
1	1+0		1	7 = 07.17 = 0	3008
.3	111	ઢ	3	8 = 1 1-17 = 1	2009
2	/±3	4	7	8 = 3 1.17 = 3	2010
ŭ	1+7	8	15	8 = 77.17 = 7	2011
5	1 +15	16	2	7 = 15×17 = 15	20121
b	1+2	3	5	8 = 27.17 = 2	2013
Ŧ	145	6	11	V = 57.17 = 5	
จ์	1+11 1+6	7		7 = 11 7. 17 = 11 7 = 23 7. 17 = 4	200 7-
so after		cond Bu	9 13 0	egain at posite	'on 1
50	9010 7. 9	* 1		V /	1 . !
So as je	n 2007	second	Bug	wr11 be at	- 1 again
<b>ೆ</b> ೦	2012 00	well	be 2.		V /

3 1

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D. 9

Answer;

$$[xb'*2xb^0+2*8 x5xb^0=3xb^2+3xb'+3xb^0]$$
  
 $[b+a)(ab+5)=3b^2+3b+3$   
 $ab^2+9b+10=3b^2+3b+b$   
 $ba-6b-7=0$   
 $[b+1)(b-7)$   
 $b=-1$  on  $b=7(4m)$   
 $(90+Possible)$ 

11. x\*y2 \*z<0 which is true

c. xyz<0 ( Not possible )

D. none of these

Answer:

12. The marked price coat was 40% less than suggested retail price. Eesha purchased the coat for half the market price at sale. What percentage less than the suggested price?

C. 58%

D. 22%

Answer

13. The cost of cow and horse is 200,000. The cow was sold at the profit of 20% and horse at a loss of 10%. The overall gain is 40,00°. The cost price of cow is

C. 7,000

D. 1,000

Answer:

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14. In a certain city 60% of the registered voter supported Congress and the rest BJP. In an assembly election,
if 75% of Congress and 20% of BJP voted candidate b , what percentage did a got?

C. 59D. 60

Answer:

15. The mean of three nos. is ten more than the least of the nos as less than greatest of the three. If the median of the three is 5, then the sum of three is

B. 20

Answer: Let three numbers be x, 1/22 annunged in value order, given median is 5.

16. A and B starts from their house at 10 am. They travel from their house on MG Road at 20 km/hr and 20 km/hr. There is a junction at 12 noon. B reaches at the junction and turns right. Both of them continue travelling till 2 pm. What is the distance between them at 2 pm?

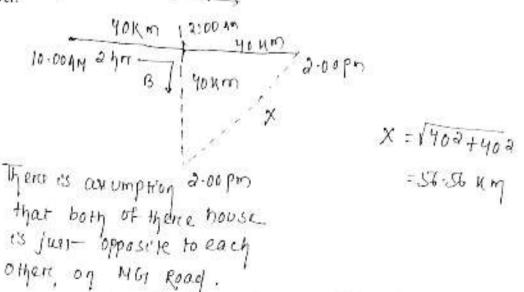
A. 160km

C. 140km

8. 120km

D. 150km

Answer:



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17. A child was looking at his father. He went 19 meters in the east before turning to his right. Then went 20 meters before turning to his right again to look his father at the uncle's place. 30 mtrs from this point. His father was not there. From here he went 100mtrs. To the north before meeting his father in a street. How far did the son meet his father?

C. 100m D. None of these

Answer:

18. In an office at various times during the day the boss gives a secretary a letter to type. Each time putting the letter on top of the pile in the secretary, where there is in time, the secretary takes the top letter of the pile and type if there are 5 letters in all and the boss delivered them in an order 12345, which of the following could be the order in which the secretary types it?

Answer:

19. Jack is faster than Paul. Jack and Paul each walk 20km. The sum of their speed is 7km/hr and the sum of their time taken is 14 hrs. What is the speed of Jack?

Answer:

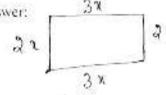
$$S_1 = \frac{D}{T_1}$$
  $1S_2 = \frac{P}{T_2}$   $S_1 + S_3 = \frac{D}{T_1} + \frac{D}{T_3} = \frac{D(T_1 + T_3)}{T_1 - T_3} \Rightarrow T_1 + T_3 = 14$ 
 $T_1 - T_3 = 48 - (1)$ 
 $T_1 + T_3 = 14 - (1)$ 
 $B_y$  solving (1)  $a(11) \rightarrow T_1 = 6$ ,  $T_3 = 8$ 
 $S_1 = 24/6 = 4$ ,  $S_4 = 24/8 = 3$ 
 $[Paul = 3.8. Talk = 4]$ 

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20. Raj drives slowly along the perimeter of the rectangle part at 24km/hr and completes full round in 4 minutes. If the ratio of the length to the breadth of the part by 3:2, what is the dimension?

Answer:



3 χ = 4 80 21. At 12:00 Jack starts to walk from his house at 6km/hr. At 13:30 starts Paul follows him from Jack's house on his bicycle at 8 km/hr. When will Jack be 3km behind Paul?

- C. 2400
- D. None of these

Answer:

## 23. Find the answer of

## 4444445 x 88888885 x 44444442 + 44444438

4444444 2

C. 8579645

D. none of these

Answer:

$$\begin{array}{c} x = 44444444 \\ (x+1)(2n-3)(n-2)+n+6 \\ = (2n-5) \\ & = \boxed{88888883}$$

24.

20	- 6	22
5	8	12
75	42	102

 $\Leftrightarrow$ 

12	15	3
6	X	12
54	81	45

(12+6) x3 = 54

(15+x) X3 = 81

Find X

A.	12
B.	11

[n=12]

C. 89 D. 10

Answer:

A. 40

B. 30

Answer:

$$(1-2) = -1$$
 Hence till 98 there are 49  
 $(3-3) = -1$  Such paires  
 $(3-4) = -1$  Such paires  
 $50 -1 (49) + 99$   $= 50$ 

26. The length and breadth of a field is 300x400ft, if there are 3 ants on average per square inch of field, find the approximate number of ants in field

C. 258000

D. None of these

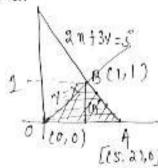
Answer:

27. Find the area (in square units) of the triangle formed by 2x+3y=5, y=x and X-Axis.

C. 5/8 unit2

D. None of these

Answer:



Arrea of AADB

28. The ratio of perimeter of an equilateral triangle having an altitude equal to the radius of the circle, to the perimeter of an equilateral triangle inscribed in that circle is?

C. 5:2

D. None of these

Answer:





A vincle with nadius in 2 a A is inscribed in 19. 11 = b/13

Ranio of percimeter
3a:3b=a:b

2 m/3: m/3 => 2:3

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29. Maximum number of identical pieces (of same size) of a cake by making only 3 cuts?

D. None of these

Answer:



Not to working about the size of each prece as that can be made equal by giving different ordientation to the line. There can be f preces made.

30. 35674 term in 12345678910111213....

Answer: No. of lologit no. s = 9x1=9

Out of 35674 temp 2889 over tell all three degit and written.

Number required = 32785/4 = 8196×4+1 808196 700 and required, It will take us to 8196+999=9195

31. The number of bacteria was growing in a city exponentially, at 4 pm yesterday, the number of bacteria was 400 and at 6 pm yesterday it was 3600. How many bacteria were there at 7pm yesterday?

C. 14,200

D. None of these

Answer:

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32. Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age: After further 8 years, how many times would he be of Ronit's age?

Answer:

33. Arun was all bent on building a new house. He carefully got the blue print of his house designed buy his friend Ashwin, a civil engineer. He wanted to build a room of dimension 27 by 48 ft and lay tiles in this room. Each tile was of dimension 2 by 3 ft. How many tiles should Arun buy?

Answer:

34. What should be added in 6440 that is when divided by 460 gives reminder 35,

35. Sum of 2 no is 50 and sum of their reciprocal is 1/12. So find these numbers.

Answer:

a +b=50  

$$\frac{1}{a}$$
 +  $\frac{1}{b}$  =  $\frac{1}{12}$  >  $\frac{a+b}{ab}$  =  $\frac{1}{12}$  >  $\frac{a+b}{ab}$  =  $\frac{1}{12}$  >  $\frac{50}{ab}$  =  $\frac{1}{12}$  >  $\frac{1}{ab}$  >  $\frac{1}{ab}$  = 600  
By hit and trial method,  
 $a = 30, b = 20$  on  $b = 30, a = 20$ 

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