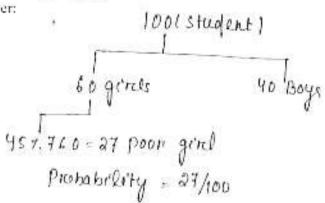
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Mock Test Number: 011

 In a class there are 60% girls and out of them 45% are poor. A student is selected at random; find the probability that the student is a poor girl.

C. 37/100
D. 25/100

Answer:



The average of Tucsday Wednesday and Thursday is 37, where as the average of Wednesday Thursday and Friday is 38. If Friday is 39 find Tuesday

C. 38

D. 39

Answer:

$$T_{+}w+T_{h}=37\times3$$
 — D

 $w+T_{h}+F_{h}=36\times3$ — D

 $f_{h}-T=(38-37)\times3$ @—D

on $39-T=3$
 $T=36$

 A man purchased cow and horse at RS 200000 and sold cow for 20% profit and horse at a loss, if overall gain is 4000 find the selling price of cow and horse

C. 3% D. 9%

Answer:

If A=2/3(B=C) and c=1/2(A+B) and A+B+C=3000, then find C.

C. 1600 D. 2000

Answer:

5. In a city there are 60% congress voters and 40% bjp voters. If 75% of congress voters and 20% of BJP voters vote for candidate A, then find the total no of votes for candidate A,

C. 65%

D. 22%

Answer:

6. If a publication occurs every seven years and the sum of the years is 13524. Then find the first year.

Answer:

7. If three people can do a piece of work in 36 days. And first and second can do twice as the third. First and third can do thrice the second. Then find how many days will c take to do the work.

Answer: Let the total work completed by A.B.C be a, bec unit perday Also say there are 36 units of worch which can be completed by A.B.C on 36 days, one they completed lung-1/day

$$a+b+a = \frac{a+b+c}{2c} = 1$$

$$a+b+c = \frac{3c+b+c}{3c+1} = 1$$

$$so c will take 36 upch = 108 days$$

$$y_3 upch / day$$

$$y_3 upch / day$$

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8. There are 8 people F, G H J K L M N. 2 groups are to be formed. F will always go with J. G and M will never go together. H will always go with L. N will always go with G. find out the two groups.

C. JFGN& HMKL

D. None of these

Answer:

9. In a clock the long hand is of 8cm and the short hand is of 7cm, if the clock runs for 4 days find out the total distance covered by both the hands.

C. 3689.54

D. None of these

Answer:

10. If A owes 50rs on a B, he decides to return the money in 10rs and 20rs note only on every alternate day starting on Monday. Find out the different ways in which he can return the money.(two ways are said to be different if different denominations of notes are given)

C. 8 D 3

Answer

11. If m+n is divided by 12 then the remainder is 8. And if m-n is divided by 12 then the remainder is 6. Find out the remainder when mn is divided by 6.

B. 2

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Answer:

12. If a can do a piece of work in 16 days and b can do in 24 days and A,B and C can do in 8 days then find out in how many days can C do the work. 48

C. 65

D. 25

Answer:

LCM (16,24,8) = 48 upi's

4
$$\frac{48}{16}$$
 = 30/d

50 to tal days = $\frac{48}{1}$ = 48 days

B $\Rightarrow \frac{48}{29}$ = 20/d

L 3+2+C = 6

.: C = 1 U/d

A+B+C $\Rightarrow \frac{48}{8}$ = 6 U/d

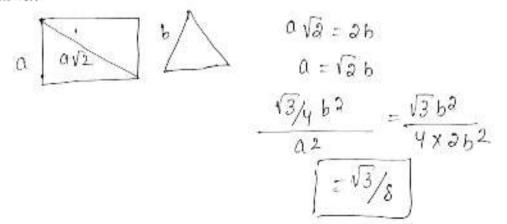
13. If the diagonal of the square is equal to twice of side of a equilateral triangle. Find out the ratio of the area of the triangle to the square.

A. $\sqrt{4/6}$ B. $\sqrt{3/8}$

C. \5/6

D. None of these

Answer:



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in this? A. 2000 C. 1800 B. 1200 D. 3655 Answera A - 10 T - LCM: 30 N's mak = 3 unrk/day B's rease = 2 units/day => A's total work: B's total work = 310 . 50, B's share = 2 x 5000 = 2000 15. A man goes upstream for 10kms in 5 hrs. Another man goes downstream for 10kms in 3 hrs. If speed of stream is 15kms, what is the difference in speed of both men? A. 25.33 km/hr C. 32.10 km/hr B. 28,66 km/hr D. None Of These (Upsticeam) = 10/5 = 2 Km/hit - 1 Answer: Bats = 10/3 = 3.33 Km/hr 1-(2) (down stream) 'Ø −Ø , Bo-B, +85=1-33 (OR) B1-B2= 30-1-33 = 28.66 KM/bn 16. $1 * 1! + 2 * 2! + 3 * 3! + \dots 2112 * 2012! = ?$ A. L2013 -1 C. L2112-1 D. None of these Answer: N= 11+12 +13+14+... 12012 +12013 N= LL+ OLL + 3 L2 + 4 L3 + ... 2012(2011 + 2013(20)) 2 0 = L1 + 112 + 212 + 312 + ··· + 20 11 12011 + 2012 (2012 - 12013 (2013-1) = ILL + 212 + 313 + · · · + 2012 (2012 5 I was I caration impleysoffity Program MT-911

14. A does a work in 10 days, B does in 15 & A + B will get Rs.5000 total. What will be the share of B

17. 12 towns are divided into 4 groups of 3 each. If any two towns in same group are connected by 3 direct lines & in different groups by 1 direct line. Find the total number of direct lines?

A. 51 B. 52 D. 54

Answer:

A D G B F 14 C F J

No. of L No. of Journ 19 No. of Journal Lives

a group dract groups between cities

18.11 22 33 888

of 3 groups

How ways we can arrange them so that odd positions are occupied by even positions.

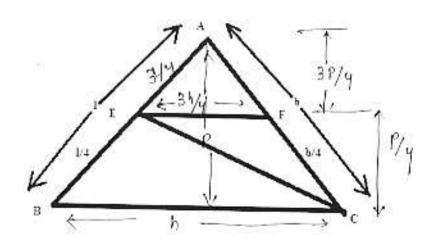
A. 20 B. 40 D. 90

Answer: 15 + 14 | Arthonogement Arthonogement of even no. + of odd no. my

10 ×6

= [60]

19.



Area = 40 unit.

Area (EFC) = ?

A. 6.5 sq unit B.! 7.5 sq unit C. 9.5 sq unit

D. None of these

Answer:

A ARE is simple to DABC

So, corresponding sides will have the same ratio.

$$\Rightarrow \frac{AB}{AE} = \frac{BC}{EF} \Rightarrow \frac{C}{3E/4} = \frac{b}{EF} \Rightarrow EF = \frac{3b}{4}$$

Anea = 40 = 1/2 xhxp

20. A bag has 1, 3, 5, 7, 9, 11 & 13 sticks. 3 are drawn. What is the probability they will form a triangle?

C. 15

B. 14

D. 16

Answer:

| a 1 | Ь | 1 C | | |
|-------|-------|------------|------|-----|
| | 3 | 0 | 1100 | nga |
| Ì | 5,7,9 | - → O | 11 | U |
| 33333 | J. | 9-1 | | |
| 3 | 9.11 | 11,13 -> 2 | | |
| 5 | 13 | 5 → 0 | | |
| 3 | 9 | 11,1372 | | |
| 7 | 9. | 13/3/2 | | |

- 21. Find sum of prime numbers between x and y?
 - A Find the prime number between the both x and y and add them
 - B. Find the prime number of x and add them

- C. Add x and y then find the prime number
- D. None of these

Answer:

22. Which of the following number must be added to 5678 to give a remainder of 35 when divided by 4602

C. 955

D. 618

Answer:

If we need of ramainder 35, while dividing a number by 460. The unit place of that number 50 5678 +797 = 6475

23. George and Mark work for a company. George can finish a certain job in 30 Days Mark can finish the same job in 45Days. A project was taken by company and George was made superior to mark, This move from the company was not liked by mark so mark did not work for 15 Days. Find the total number of days the entire work was completed if mark work at its normal speed after 15 days from the date of commencement

A. 15 B. 24

C. 35

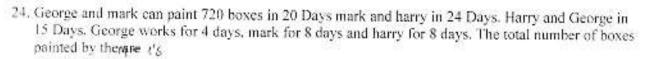
D. 22

Answer: George Cay Figish a ceretain job in 30 days. March can figish

LCM of (30, 45) = 90

15+9=24 days 150 entires 375 45/5=9 15+9=24 days 150 entires work was compressed.

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Answer:

Total Boxes pargled = 44 tem + 8H = 46 + 8(M+H) = 4427 + 8x30 = 108 + 240 = 1348 Boxes

25. A merchant buys 20Kg of wheat at Rs 30 per kg and 40kg wheat at Rs 25 Per kg. he mixed them and sell the one third of the mixture at 26 per Kg. The price at which the merchant should sell the remaining mixture so that he may earn a profit of 25% on his whole outlay is

Answer:

26. Sum of series: 1-2+3-4+5-6.....200 terms

Answer:
$$1+3+5-\cdots 199$$
 (100 Herms) $\frac{100}{a}$ (1+ 199)= 10000 $\frac{1}{a}$ 44+6... 200) (100 Herms) $\frac{100}{a}$ (2+200) = -10,100 $\frac{1}{a}$ (3+200) = -10,100 $\frac{1}{a}$ (1-2) = 1 15 ercs arcs. 100 pair like Mis (3-4) = -1 hence $\frac{1}{a}$

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27. 12 kg rice at Rs 26/kg and 10 kg rice at Rs 28/kg. 1/3 sold at Rs. 32/kg. At what rate he should sell remaining to earn at profit of 25%?

28. 2/3 halls are blue remaining are pink. 7/8 blue are defective. ¼ of pink are defective. No of non defective is 152. Find no of defective.

29. Grand mother is twice the age of boy in 1994. Sum of grandmother's age and boy birth date is given. Find the boys age in 1999?

A.
$$x/3+5$$
B. $x/3+6$

Answer: $Sum = X$, $GI+B=X$

$$GI=BB$$

$$AB+B=X \Rightarrow BB=X$$

$$B=X13$$

$$In 1999, boy's age = 11/3 + 5$$

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30. A's father will be twice as old as A in 5 years. His mother was twice of him 2 years back. Find sum of fathers and mothers age now?

C.
$$2A + 5$$

D. None of these

Answer:

$$F+5 = 2(4+5)$$
 $M-2 = 2(4-2)$
 $F+M+3 = 2(4+3)$
 $\Rightarrow F+M = 24+3$

31. 24 random points. 7 are collinear. Any 3 points are not collinear. Find number of triangles formed?

Answer: From 7 collingean points select any 3 is
$$7c_2$$
. This is the base of the troingle. It there are (24.7) = 17 choices for the apex of the Δ .

So with collingean point $\Delta = 7c_2 \times 17$ with non-collingean point $\Delta = 17c_3 \times 17$.

If ($7c_2$) $417c_3 = [1037-]$

32. G does 2/3 times M and ¼ times II. % of G out of total work?

D. 5/23

Answer:

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33. I man'loads I box in 9 mins. If I6 man work together, how man they will load in 90 mins?

C. 160 boxes

B. 140 boxes

D. 180 boxes

Answer:

34. X²+2x+2a=0; x²+11x+a=0; find value of 'a' such that both has common roots?

B. -185

Answer: MR+2x+20=0

$$y^{2} + 11x + a = 0$$
 $x^{2} + 2x + 2a = 0 - (4)$
 $x^{2} + 11x + a = 0 - (5)$
 $x^{2} + 11x + a = 0 - (5)$
 $x^{2} + 2ax + a = 0$

$$(-90)_{9}+11(-90)+0=0$$

. d = -20

M+H = 720/30 = 24 Boxes/day

H+ G= 720/36 = 20 Boxe0/day

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6-180 rege Lan feigest a ceretain job in 30 days I day Go compute /30 part of the works. March can figure the same job in 45 days. I day M complete bys paret of the work. 15 days G work alone & comprese 15x1/30=1/2 part

of the work .

M2G together complete the work in 30145 = 18 days.

M+19 will work together for remaining half pourel - of the word the 18/2 = 9 days.

The total number of days the entire work was completed i's (15 +9) = 24 days.