Aptiset 3

Total points 21/40 ?

✗ For f(m, n) =45*m + 36*n, where m and n are integers (either positive or *0/1
negative). What is the minimum positive value for f(m, n) for all values of
m, n (this may be achieved for various values of m and n)?

◉ 18   ✗

○ 12

○ 9

○ 16

Correct answer

◉ 9

✓ A fort had provision of food for 150 men for 45 days. After 10 days, 25 *1/1
men left the fort. The number of days for which the remaining food will
last, is:

○ 29

○ 37

◉ 42   ✓

○ 54

✓ A library has an average of 510 visitors on Sundays and 240 on other   *1/1
days. The average number of visitors per day in a month of 30 days
beginning with a Sunday is:

○ 250

○ 276

○ 280

◉ 285   ✓

✗ The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The   *0/1
period (in years) is:

○ 2

◉ 2 1/2   ✗

○ 3

○ 4

Correct answer

◉ 2

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

○ 24

◉ 18   ✓

○ 16

○ 12

✗ There are two bags containing white and black marbles. In the first bag   *0/1
   there are 8 white marbles and 6 black marbles and in the second bag,
   there are 4 white marbles and 7 black marbles. One marble is drawn at
   random from any of these two bags. Find the probability of this marble
   being black.

○ 7/54

◉ 7/154   ✗

○ 41/77

○ 22/77

Correct answer

◉ 41/77

PRN NO *

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✓ A man covered a certain distance at some speed. Had he moved 3 kmph   *1/1
   faster, he would have taken 40 minutes less. If he had moved 2 kmph
   slower, he would have taken 40 minutes more. The distance (in km) is:

○ 35

○ 36

○ 37

◉ 40   ✓

✓ A shopkeeper charges 12 rupees for a bunch of cakes. Anuj bargained to   *1/1
the shopkeeper and got two extra ones, and that made them cost one
rupee for dozen less than first asking price. How many cakes did Anuj
receive in 12 rupees?

○ 10

○ 14

○ 18

◉ 16   ✓

✓ A team of 11 is needed to be formed who are to be selected from 5 men   *1/1
and 11 women, with the restriction of selecting not more than 3 men. In
how many ways can the selection be done?

○ 1121

○ 1565

○ 1243

◉ 2256   ✓

✗ The curved surface area of a cylindrical pillar is 264 m2 and its volume is *0/1
924 m3. Find the ratio of its diameter to its height.

○ 3 : 7

○ 7 : 3

○ 6 : 7

◉ 7 : 6   ✗

Correct answer

◉ 7 : 3

✓ **Posthumous Publication** occurs when a book is published after the   *1/1
author's death. Which situation below is the best example of Posthumous
Publication?

◉ Richard's illness took his life before he was able to enjoy the amazing early   ✓
reviews of his novel.

○ Melissa's publisher cancels her book contract after she fails to deliver the
manuscript on time

○ Clarence never thought he'd live to see the third book in his trilogy published.

○ Elizabeth is honoured with a prestigious literary award for her writing career and her
daughter accepts the award on behalf of her deceased mother

Name *

Ganesh Balki

✓ If f(x) = 2x + 2 what is the value of f(f(3))? *   1/1

○ 8

○ 64

○ 16

◉ 18   ✓

✓ Mr Mehta chooses a number and keeps on doubling the number followed *1/1
by subtracting one from it. If he chooses 3 as the initial number and he
repeats the operation 30 times then what is the final result?

○ (2^30) − 1

○ (2^30) − 2

○ (2^31) − 1

◉ None of these   ✓

✗ The average weight of 8 person's increases by 2.5 kg when a new person *0/1
comes in place of one of them weighing 65 kg. What might be the weight
of the new person?

76 kg

○ 76.5 kg

◉ 85 kg   ✗

○ Data inadequate

○ None of these

Correct answer

◉ Data inadequate

✗ Given that (2, 5) is the centre of the circle with radius 3 units which of the *0/1
following points lie on the circle.

○ (5,5)

○ (-5,2)

○ (2,7)

◉ (0,1)   ✗

Correct answer

◉ (5,5)

✓ The secret agency Tycoon emailed some code to its agent 006. They are   *1/1
"RACECAR, MURDRUM, SAGAS, ATTACK, and REPAPER". Leaving one
which is fake, all other words have something in common. Can you help
in finding the fake word?

○ Murdrum

◉ Attack   ✓

○ Repaper

○ Sagas

✕ There is an office consisting of 38 people. 10 of them like to play golf, 15   *···/1
like to play football and 20 neither play golf nor football. How many like
both golf and football?

○ 10

○ b) 7

◉ c) 15   ✕

○ d) 18

No correct answers

✗ Two circles of radii 10cm and 8 cm intersect and the length of the common chord is 12 cm. find of the common chord is 12 cm. Find the distance between their centers.   *0/1

○ 6 cm

⦿ 12 cm   ✗

○ 13.29 cm

○ 15 cm

Correct answer

⦿ 13.29 cm

✗ Two pipes A and B can fill a cistern in 37 minutes and 45 minutes respectively. Both pipes are opened. The cistern will be filled in just half an hour, if the B is turned off after: *0/1

○ 5 min.

○ 9 min.

○ 10 min.

⦿ 15 min.   ✗

Correct answer

⦿ 9 min.

✓ A train passes a station platform in 36 seconds and a man standing on   *1/1
the platform in 20 seconds. If the speed of the train is 54 km/hr, what is
the length of the platform?

○ 120 m

◉ 240 m   ✓

○ 300 m

○ None of these

✗ An aeroplane covers a certain distance at a speed of 240 kmph in 5   *0/1
hours. To cover the same distance in
1https://www.indiabix.com/_files/images/aptitude/1-div-2by3.gif hours, it
must travel at a speed of:

○ 300 kmph

○ 360 kmph

◉ 600 kmph   ✗

○ 720 kmph

Correct answer

◉ 720 kmph

✗ A person wanted to withdraw X rupees and Y paise from the bank. But   *0/1
   cashier made a mistake and gave him Y rupees and X paise. Neither the
   person nor the cashier noticed that. After spending 20 paise, the person
   counts the money. And to his surprise, he has double the amount he
   wanted to withdraw. Find X and Y. (1 Rupee = 100 Paise)

○ X=3, Y=6

○ X=26, Y=53

◉ X=15, Y=30   ✗

○ X=9, Y=36

Correct answer

◉ X=26, Y=53

✗ At 6 -o clock clock ticks 6 times. The time between first and last ticks   *0/1
   was 30 sec. How much time it takes at 12 -o clock.?

○ 66 sec

○ 68 sec

◉ 62 sec   ✗

○ 64 sec

Correct answer

◉ 66 sec

✓ **Embellishing the Truth** occurs when a person adds fictitious details or   *1/1
exaggerates facts or true stories. Which situation below is the best
example of Embellishing the Truth?

○ Isabel goes to the theatre, and the next day, she tells her co-workers she thought
the play was excellent.

◉ The realtor describes the house, which is eleven blocks away from the ocean,   ✓
as prime waterfront property

○ During the job interview, Fred, who has been teaching elementary school for ten
years, describes himself as a very experienced teacher.

○ The basketball coach says it is likely that only the most talented players will get a
college scholarship.

✗ Ram alone can do 1/4th of the work in 2 days. Shyam alone can do 2/3th   *0/1
of the work in 4 days. So what part of the work must be done by Anil in 2
days, for them to complete the work together in 3 days?

○ 1/8

◉ 1/20   ✗

○ 1/16

○ 1/12

Correct answer

◉ 1/12

✓ **If 6th March, 2005 is Monday,** what was the day of the week on 6th March, 2004?   *1/1

- ⦿ Sunday   ✓
- ○ Saturday
- ○ Tuesday
- ○ Wednesday

✓ If log10 7 = *a*, then log10 {1/70} is equal to? *   1/1

- ⦿ - (1 + a)   ✓
- ○ (1 + a)-1
- ○ a/10
- ○ 1/10a

✓ Two vertical walls of the length of 6 meters and 11 meters are at a distance of 12 meters apart. Find the top distance of both walls?   *1/1

- ○ 15 meters
- ⦿ 13 meters   ✓
- ○ 12 meters
- ○ 10 meters

✕ If you take a marker & start from a corner on a cube, what is the   *0/1
    maximum number of edges you can trace across if you never trace
    across the same edge twice, never remove the marker from the cube, &
    never trace anywhere on the cube, except for the corners & edges?

○ 8   ✕

○ 6

○ 9

○ 12

Correct answer

◉ 9

✓ If selling price is doubled, the profit triples. Find the profit percent. *   1/1

○ 66

◉ 100   ✓

○ 105

○ 120

✓ In how many ways can the letters of the word 'LEADER' be arranged? *   1/1

○ 72

○ 144

◉ 360   ✓

○ 720

✓   O is the incentre of ΔABC and ∠A = 30° then ∠BOC is *   1/1

○ 100°

◉ 105°   ✓

○ 110°

○ 90°

✕   1/3 rd of the contents of a container evaporated on the 1st day. 3/4th of   *0/1
    the remaining contents of the container evaporated on the second day.
    What part of the contents of the container is left at the end of the second
    day?
    (x-1/3x)-((x-1/3x)3/4)=2/3x-1/2x= 1/6x

○ 1/4th

◉ 2/3rd   ✕

○ 1/6th

○ 1/3rd

Correct answer

◉ 1/6th

✕ A worker earns a 5% raise. A year later, the worker receives a 2.5% cut in   *0/1
   pay, & now his salary is Rs. 22702.68 What was his salary to begin with?

○ 22176

○ 22226

○ 22702

◉ 22300   ✕

Correct answer

◉ 22176

✕ Albert invested an amount of Rs. 8000 in a fixed deposit scheme for 2   *0/1
   years at compound interest rate 5 p.c.p.a. How much amount will Albert
   get on maturity of the fixed deposit?

○ Rs. 8600

○ Rs. 8620

○ Rs. 8820

◉ None of these   ✕

Correct answer

◉ Rs. 8820

✗ All even numbers from 2 to 98 inclusive the both, are to be multiplied   *0/1
   together. What is the unit digit of the product?

○ 2

○ 0

◉ 6   ✗

○ 4

Correct answer

◉ 0

✓ There is a city where all 100% votes are registered. Among this 60% votes *1/1
   for Congress and 40% votes for BJP. Ram, gets 75% of congress votes
   and 8% of BJP votes. How many votes did Ram get?

◉ 48.2 %   ✓

○ 56.6 %

○ 42.8 %

○ 64.4 %

✓ How many bricks, each measuring 25 cm x 11.25 cm x 6 cm, will be   *1/1
   needed to build a wall of 8 m x 6 m x 22.5 cm?

○ 5600

○ 6000

◉ 6400   ✓

○ 7200

✓ John is faster than Peter. John and Peter each walk 24 km. Sum of the   *1/1
speeds of John and Peter is 7 km/h. Sum of time taken by them is 14
hours. Find John's speed.

◉ 4 km/h   ✓

○ 5 km/h

○ 3 km/h

○ 7 km/h

✗ Anil works for 8 straight days and rest on the 9th day. If he starts his work *0/1
on Monday, then on which day he gets his 12th rest day?

◉ Thursday   ✗

○ Tuesday

○ Wednesday

○ Friday

Correct answer

◉ Wednesday

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