

Crossover Drill - Practice Test - 10 (Quantitative Aptitude) (Self Assessment Test for Placement Drive - 2023 - 24)

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* Indicates required question

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What is the relationship between the fractions $14/15$ and $37/40$? *

- ☐ $14/15 = 37/40$
- ☒ $14/15 > 37/40$
- ☐ Cannot be determined
- ☐ $14/15 < 37/40$



Out of 26, 13 and 34, which two numbers are co-prime?

- ☐ 26 and 13
- ☐ 13 and 14
- ☒ 34 and 26
- ☐ None of the pairs is a co-prime

Clear selection

Rajesh commutes daily by travelling $\frac{4}{5}$ of the distance between his home and office by Metro train. $\frac{3}{20}$ by auto and the remaining 1 km on foot. The distance between his home and office is: *

- ☐ 16 km
- ☐ 24 km
- ☒ 20 km
- ☐ 12 km

Find the remainder when (888..... repeat 63 times) is divided by 9.

- ☐ 4
- ☐ 8
- ☒ 0
- ☐ 1

Clear selection



What is the unit digit of the sum?

$$1 + 2^2 + 3^3 + 4^4 + 5^5 + 6^6$$

- ☐ 0
- ☐ 4
- ☐ 7
- ☒ 9

Clear selection

The value of $\log_{abc} a^2 b^2 c^2$ is:

- ☐ abc
- ☐ ab
- ☐ 1
- ☒ 2

Clear selection

How many factors does 400 have?

- ☐ 8
- ☐ 10
- ☐ 12
- ☒ 15

Clear selection



A bank advertises that you can double the money by investing it with them for 8 years. What is the interest rate offered by them?

- ☒ 12.50%
- ☐ 10%
- ☐ 8.50%
- ☐ 14%

Clear selection

Find the probability that the sum of the score is even in a throw of two dice.

- ☐ $1/4$
- ☐ $1/3$
- ☒ $1/2$
- ☐ $2/3$

Clear selection

Nitin has 8 grey socks and 8 white socks. He pulls two socks randomly without looking at them. What is the probability that both are white? *

- ☐ $1/8$
- ☐ $8/30$
- ☐ $1/2$
- ☒ $7/30$



1404 is not a multiple of:

- ☐ 6
- ☐ 13
- ☒ 32
- ☐ 39

Clear selection

What is the value of $(5^{-2} \times 10^{-4}) / (2^{-5} \times 5^{-6})$?

- ☐ 0
- ☒ 2
- ☐ 5
- ☐ 10

Clear selection

Replace the symbols * and # in 9586*4# so that it is divisible by both 8 and 5

- ☒ 0, 0
- ☐ 1, 0
- ☐ 0, 5
- ☐ 1, 5

Clear selection



Find the value of $\log(\sqrt{16})/\log 16$.

- ☐ 0
- ☒ $1/2$
- ☐ $3/2$
- ☐ 1

Clear selection

There are 5 types of toys, with 2 toys of each type. In how many ways can a shopkeeper arrange them on a shelf? *

- ☐ $10!$
- ☐ $10!/2$
- ☒ $10!/32$
- ☐ $5!/2$

$\log 3600$ is equal to_____

- ☐ $2 \log 6 + 1$
- ☐ $6 \log 2 + 1$
- ☒ $2 \log 6 + 2$
- ☐ $6 \log 2 + 2$

Clear selection



The LCM of four numbers is 48. Three of them are 6, 8, and 12. What can be the fourth number?

- ☒ 16
- ☐ 18
- ☐ 24
- ☐ 20

Clear selection

What is the least number that should be added to 2025 to obtain a number exactly divisible by 39? *

- ☐ 1
- ☐ 2
- ☒ 3
- ☐ 4

In a game, each person is dealt 3 cards from a deck of 52 cards and a player is said to have a winning deck if and only if he or she has a king, a queen and a jack each, irrespective of the colour or the sign. What is the total possible number of winning decks for this game?

- ☐ 3
- ☐ 4
- ☐ 16
- ☒ 64
- ☐ 128

Clear selection



*

If $\log_x 16 = 0.8$, then what is the value of x ?

- ☐ 4
- ☐ 2
- ☒ 32
- ☐ 16

A box contains 5 red, 4 white and 3 green balls. In how many ways can 3 balls be drawn from the box, without replacement, so that at least 2 of them are green?

- ☐ 18
- ☐ 28
- ☒ 27
- ☐ 9
- ☐ 30

Clear selection

If $a = 4$, $b = 5$, and $c = 7$, then what is the value of $\log_4 \sqrt{a + b + c}$?

- ☒ 1
- ☐ 2
- ☐ 3
- ☐ 4

Clear selection



What is the difference between the LCM and the HCF of the numbers 20, 30, and 40?

- ☐ 100
- ☒ 110
- ☐ 120
- ☐ 130

Clear selection

A started a business with Rs. 2,70,000 and was joined by B three months afterwards. How much money did B invest if the profit share of A at the end of the year was three-fifth of the total profit?

- ☒ Rs. 2,80,000
- ☐ Rs. 1,00,000
- ☐ Rs. 2,70,000
- ☐ Rs. 2,40,000

Clear selection

The simple interest earned on a certain amount is double the money when invested for 15 years. What interest rate is offered?

- ☐ 26.66%
- ☐ 12%
- ☐ 30%
- ☒ 13.33%

Clear selection



A stone is dropped from a height of 5 km. The distance it falls through varies directly with the square of the time taken to fall through that distance. If it falls 64 m in 4 seconds. find the distance the stone covers in the 5th second?

- ☒ 36 m
- ☐ 58 m
- ☐ 72 m
- ☐ 100 m

Clear selection

If LCM and HCF of two numbers are equal and the product of two numbers is 2916, find their LCM.

- ☒ 54
- ☐ 56
- ☐ 64
- ☐ 66

Clear selection

In an examination, a candidate is required to answer 5 questions in all, from 2 sections having 5 questions each. What is the total number of ways in which a candidate can select the questions, provided that at least two questions are to be attempted from each section? *

- ☒ 200
- ☐ 20
- ☐ 100
- ☐ 10



When 2^{35} is divided by 5, the remainder is:

- ☐ 2
- ☒ 3
- ☐ 4
- ☐ 0

Clear selection

If I have kept six different books on a shelf, in how many different ways can I arrange them?

- ☐ 6
- ☐ 24
- ☐ 120
- ☒ 720

Clear selection

Page 2 of 2

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