

Arithmetic

The number, whose square is equal to the difference of the squares of the numbers 68 and 32, is

- a) 36
- b) 48
- c) 60
- d) 64

Option – c)

The area (in sq cm) of the largest circle that can be drawn inside a square of side 28 cm, is

- a) 17248
- b) 784
- c) 8624
- d) 616

Option – d)

If $1^3 + 2^3 + 3^3 + \dots + 10^3 = 3025$, then $4^3 + 3^3 + 10^3 + \dots + 4000$ is equal to

- a) 12000
- b) 12100

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c) 122000

d) 12400

Option – b

If $(3x - y) : (x + 5Y) = 5:7$, then the value of $(x + y) : (x - y)$ is

a) 2 : 3

b) 3 : 2

c) 3 : 1

d) 1 : 3

Option – c)

A certain sum amount to Rs 5832 in 2 yr at 8% per annum compound interest, the sum is

a) Rs 5000

b) Rs 5200

c) Rs 5280

d) Rs 5400

Option – a)

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A sum is invested at compound interest payable annually. The interest including principal in two successive years was Rs 225 and Rs 236.25 respectively. The rate of interest was

- a) 4.5%
- b) 5%
- c) 8%
- d) 6.25%

Option – b)

How many 3 digit numbers, in all, are divisible by 6?

- a) 140
- b) 150
- c) 160
- d) 170

Option – b)

What is the largest number of 4 digits which divided by 6,9,12,15 or 18 leaves 1 as a remainder in each case?

- a) 9901
- b) 9899

c) 1081

d) 9673

Option – a)

$\cos 0^\circ$ is equal to

a) 0

b) 1

c) Not defined

d) None of these

Option – b)

For a certain article, if the discount is 25% the profit is 25%. If the discount is 10%, then the Profit is

a) 50%

b) 40%

c) 30%

d) 33 %

Option – a)

If the CP of 5 mangoes is equal to the SP of 4 mangoes, then what will be the gain percentage?

a) 20

b) 16

c) 25

d) 10

Option – c)

If $x^2 + y^2 - 4x - 4y + 8 = 0$, then the value of $x - y$ is

a) 4

b) – 4

c) 0

d) 8

Option – c)

The discount series 10%, 20%, 40% is equivalent to a single discount of

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- a) 50%
- b) 56.8%
- c) 60%
- d) 62.28%

Option – b)

Find the largest common divisor of 102 and 1170

- a) 10
- b) 7
- c) 6
- d) 8

Option – c)