

Aptitude - Arithmetic Online Quiz

Following quiz provides Multiple Choice Questions (MCQs) related to **Basic Arithmetic**. You will have to read all the given answers and click over the correct answer. If you are not sure about the answer then you can check the answer using **Show Answer** button. You can use **Next Quiz** button to check new set of questions in the quiz.



Q 1 - If an A.P. have 4th term as 14 and 12th term as 70. What will be its 17th term?

A - 108

B - 107

C - 106

D - 105

Answer : D

Explanation

Let's have first term as a , common difference is d then

$$a + 3d = 14 \dots (i)$$

$$a + 11d = 70 \dots (ii)$$

Subtracting (i) from (ii)

$$\Rightarrow 8d = 56 \Rightarrow d = 7$$

Using (i)

$$\Rightarrow a = 14 - 3d = -7$$

Using formula $T_n = a + (n - 1)d$

$$T_{17} = -7 + (17 - 1) \times 7 = 105$$

Hide Answer

Q 2 - Find two natural numbers whose sum is 72 and the least common multiple is 429?

A - 35, 37

B - 41, 31

C - 39, 33

D - 29, 43

Answer : C

Explanation

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Sum $x+y=72$

Lcm of 39 & 33 is 429

[Show Answer](#)

Q 3 - 5#2 is a three digit number with # as a missing number. If the number is divisible by 6, the missing number is?

A - 2

B - 7

C - 6

D - 3

Answer : A**Explanation**

If the number is divisible by 6, the sum of the number must be divisible by 6.

[Hide Answer](#)

Q 4 - What is the greater of two numbers whose product is 1092 and the sum of the two numbers exceeds their difference by 42?

A - 48

B - 44

C - 52

D - 54

Answer : C

Explanation

Let the numbers be x and y respectively.

According to question, $(x + y) - (x - y) = 42$

or, $y = 21$

$\therefore x = 1092/21 = 52$

Greater number is 52.

Hide Answer

Q 5 - How many multiples of 3 are available between 15 and 105 including both?

A - 30

B - 31

C - 32

D - 33

Answer : B**Explanation**

Here numbers are 15, 18, ..., 105 which is an A.P.

Here $a = 15$, $d = 3$,

Using formula $T_n = a + (n - 1)d$

$$T_{11} = 15 + (n - 1) \times 3 = 105$$

$$\Rightarrow 12 + 3n = 105$$

$$\Rightarrow n = 93 / 3 = 31$$

[Hide Answer](#)**Q 6 - What is the sum of all odd numbers between 100 and 200?**

A - 3750

B - 6200

C - 6500

D - 7500

Answer : D

Explanation

Required sum = $101 + 103 + \dots + 199$ which is an A.P. where $a = 101$, $d = 2$, $l = 199$.

Using formula $T_n = a + (n - 1)d$

$$T_n = 101 + (n-1)2 = 199$$

$$\Rightarrow 2n = 199 - 99 = 100$$

$$\Rightarrow n = 50$$

Now Using formula $S_n = (n/2)(a + l)$

$$\therefore \text{Required sum} = (50/2)(101+199) = 50 \times 150 = 7500$$

Hide Answer

Q 7 - Sum of three numbers in G.P. is 28 and there product is 512. What are the numbers?

A - 2, 6, 18

B - 2, 8, 16

C - 4, 8, 16

D - 6, 9, 13

Answer : C

Explanation

let the numbers are a/r , a , ar

Then $a/r \times a \times ar = 512$

$$\Rightarrow a^3 = 8^3$$

$$\text{gt; } a = 8$$

Now $a/r + a + ar = 28$

$$\Rightarrow 8/r + 8 + 8r = 28$$

$$\Rightarrow 8/r + 8r = 20$$

$$\Rightarrow 2/r + 2r = 5$$

$$\Rightarrow 2r^2 + -5r + 2 = 0$$

$$\Rightarrow 2r^2 + -4r -r + 2 = 0$$

$$\Rightarrow 2r(r-2) - (r-2)=0$$

$$\Rightarrow (r-2)(2r-1) = 0$$

$$\Rightarrow r = 2 \text{ or } r = 1/2$$

\therefore numbers are 4, 8, 16.

[Show Answer](#)

Q 8 - If population of a bacteria doubles every 2 minutes. In how much minutes, it will grow from 1000 to 512000?

A - 10

B - 12

C - 14

D - 18

Answer : D

Explanation

Let the required growth be 1000, 2000, 4000,...512000.

Here, $a = 1000$, $r = 2$, $T_n = 512000$

Using formula $T_n = ar^{n-1}$

$$\Rightarrow 1000 \times 2^{n-1} = 512000$$

$$\Rightarrow 2^{n-1} = 512 = 2^9$$

$$\Rightarrow n - 1 = 9 \Rightarrow n = 10$$

\therefore time taken will be $2 \times 9 = 18$ minutes.

[Hide Answer](#)

Q 9 - Which term of 2, 7, 12, 17... is 92?

A - 16th

B - 17th

C - 18th

D - 19th

Answer : D

Explanation

Here $a = 2$, $d = 7 - 2 = 5$,

Let there be n term.

Using formula $T_n = a + (n - 1)d$

$$T_n = 2 + (n - 1) \times 5 = 92$$

$$\Rightarrow 5n - 3 = 92$$

$$\Rightarrow n = 19$$

[Hide Answer](#)

Q 10 - If n^{th} term of the series 72, 63, 54, ... is 9. What is n?

A - 8

B - 9

C - 10

D - 11

Answer : A

Explanation

Here $a = 72$, $d = 63 - 72 = -9$,

Using formula $T_n = a + (n - 1)d$

$$T_n = 72 + (n - 1) \times -9 = 9$$

$$\Rightarrow 81 - 9n = 9$$

$$\Rightarrow n = 8$$

Hide Answer