Book For

Indian Bank

Indian Bank Clerk Aptitude Sample Paper

(1) A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is :

[A]

$\frac{1}{4}$

[B]

$\frac{1}{10}$

[C]

$\frac{7}{15}$

[D]

$\frac{8}{15}$

Answer : [D]

Explanation:

A's 1 day's work = $\frac{1}{15}$;

B's 1 day's work = $\frac{1}{20}$;

(A + B)'s 1 day's work = $\left(\frac{1}{15} + \frac{1}{20}\right) = \frac{7}{60}$.

(A + B)'s 4 day's work = $\left(\frac{7}{60} \times 4\right) = \frac{7}{15}$.

Therefore, Remaining work = $\left(1 - \frac{7}{15}\right) = \frac{8}{15}$.

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(2) A and B can together finish a work 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the work?

[A] 40

[B] 50

[C] 54

[D] 60

Answer : [D]

Explanation:

(A + B)'s 20 day's work = $\left(\frac{1}{30} \times 20\right) = \frac{2}{3}$.

Remaining work = $\left(1 - \frac{2}{3}\right) = \frac{1}{3}$.

Now, $\frac{1}{3}$ work is done by A in 20 days.

Therefore, the whole work will be done by A in (20 x 3) = 60 days.

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(3) Sakshi can do a piece of work in 20 days. Tanya is 25% more efficient than Sakshi. The number of days taken by Tanya to do the same piece of work is:

[A] 15

[B] 16

[C] 18

[D] 25

Answer : [B]

Explanation:
Ratio of times taken by Sakshi and Tanya = 125 : 100 = 5 : 4.
Suppose Tanya takes x days to do the work.
$5 : 4 :: 20 : x \quad \Rightarrow x = \left(\frac{4 \times 20}{5}\right)$

$\Rightarrow x = 16$ days.
Hence, Tanya takes 16 days to complete the work.

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(4) A takes twice as much time as B or thrice as much time as C to finish a piece of work. Working together, they can finish the work in 2 days. B can do the work alone in:

[A] 4 days

[B] 6 days

[C] 8 days

[D] 12 days

Answer : [B]

Explanation:
Suppose A, B and C take x, $\frac{x}{2}$ and $\frac{x}{3}$ days respectively to finish the work.

Then, $\left(\frac{1}{x} + \frac{2}{x} + \frac{3}{x}\right) = \frac{1}{2}$

$\Rightarrow \frac{6}{x} = \frac{1}{2}$

$\Rightarrow x = 12$.
So, B takes (12/2) = 6 days to finish the work.

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(5) X can do a piece of work in 40 days. He works at it for 8 days and then Y finished it in 16 days. How long will they together take to complete the work?

[A]

$13\frac{1}{3}$ days

[B] 15 days

[C] 20 days

[D] 26 days

Answer : [A]

Explanation:

Work done by X in 8 days = $\left(\frac{1}{40} \times 8\right) = \frac{1}{5}$.

Remaining work = $\left(1 - \frac{1}{5}\right) = \frac{4}{5}$.

Now, $\frac{4}{5}$ work is done by Y in 16 days.

Whole work will be done by Y in $\left(16 \times \frac{5}{4}\right)$ = 20 days.

$\therefore$ X's 1 day's work = $\frac{1}{40}$, Y's 1 day's work = $\frac{1}{20}$.

(X + Y)'s 1 day's work = $\left(\frac{1}{40} + \frac{1}{20}\right) = \frac{3}{40}$.

Hence, X and Y will together complete the work in $\left(\frac{40}{3}\right) = 13\frac{1}{3}$ days.

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(6) $2 + 2^2 + 2^3 + ... + 2^9 = ?$

[A] 2044

[B] 1022

[C] 1056

[D] None of these

Answer : [B]

Explanation:

This is a G.P. in which $a = 2$, $r = \frac{2^2}{2} = 2$ and $n = 9$.

$\therefore S_n = \frac{a(r^n - 1)}{(r - 1)} = \frac{2 \times (2^9 - 1)}{(2 - 1)} = 2 \times (512 - 1) = 2 \times 511 = 1022$.

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(7) If x and y are the two digits of the number $653xy$ such that this number is divisible by 80, then $x + y = ?$

[A] 2 or 6

[B] 4

[C] 4 or 8

[D] 8

[E] None of these

Answer : [A]

Explanation:

80 = 2 x 5 x 8

Since $653xy$ is divisible by 2 and 5 both, so $y = 0$.

Now, $653x$ is divisible by 8, so $13x$ should be divisible by 8.

This happens when $x = 6$.

$\therefore x + y = (6 + 0) = 6$.

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(8) On dividing a number by 68, we get 269 as quotient and 0 as remainder. On dividing the same number by 67, what will the remainder ?

[A] 0

[B] 1

[C] 2

[D] 3

Answer : [B]

Explanation:

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Number = 269 x 68 + 0 = 18292   67) 18292 (273      134      ----       489       469       ----        202        201        ---
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(9) The unit digit in the product (784 x 618 x 917 x 463) is:

[A] 2

[B] 3

[C] 4

[D] 5

Answer : [A]

Explanation: Unit digit in the given product = Unit digit in (4 x 8 x 7 x 3) = (672) = 2

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(10) 8988 ? 8 ? 4 = ?

[A] 4494

[B] 561.75

[C] 2247

[D] 280.875

[E] None of these

Answer : [D]

Explanation:

Given Exp. = $8988 \times \frac{1}{8} \times \frac{1}{4} = \frac{2247}{8} = 280.875$

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(11) A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?

[A] 45

[B] 60

[C] 75

[D] 90

Answer : [D]

Explanation:
Let number of notes of each denomination be x.
Then $x + 5x + 10x = 480$
$\Rightarrow 16x = 480$
$\therefore\ x = 30$.
Hence, total number of notes = $3x = 90$.

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(12) The price of 2 sarees and 4 shirts is Rs. 1600. With the same money one can buy 1 saree and 6 shirts. If one wants to buy 12 shirts, how much shall he have to pay ?

[A] Rs. 1200

[B] Rs. 2400

[C] Rs. 4800

[D] Cannot be determined

[E] None of these

Answer : [B]

Explanation:
Let the price of a saree and a shirt be Rs. x and Rs. y respectively.
Then, $2x + 4y = 1600$ .... (i)
and $x + 6y = 1600$ .... (ii)
Solving (i) and (ii) we get $x = 400$, $y = 200$.
$\therefore$ Cost of 12 shirts = Rs. (12 x 200) = Rs. 2400.

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(13) Eight people are planning to share equally the cost of a rental car. If one person withdraws from the arrangement and the others share equally the entire cost of the car, then the share of each of the remaining persons increased by:

[A] $\frac{1}{7}$

[B] $\frac{1}{8}$

[C] $\frac{1}{9}$

[D] $\frac{7}{8}$

Answer : [A]

Explanation:

Original share of 1 person = $\frac{1}{8}$

New share of 1 person = $\frac{1}{7}$

Increase = $\left(\frac{1}{7} - \frac{1}{8}\right) = \frac{1}{56}$

$\therefore$ Required fraction = $\frac{(1/56)}{(1/8)} = \left(\frac{1}{56} \times \frac{8}{1}\right) = \frac{1}{7}$

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(14)

$$\frac{(469 + 174)^2 - (469 - 174)^2}{(469 \times 174)} = ?$$

[A] 2

[B] 4

[C] 295

[D] 643

Answer : [B]

Explanation:

Given exp. $= \frac{(a + b)^2 - (a - b)^2}{ab}$

$= \frac{4ab}{ab}$

$= 4$ (where $a = 469$, $b = 174$.)

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(15) A man has some hens and cows. If the number of heads be 48 and the number of feet equals 140, then the number of hens will be:

[A] 22

[B] 23

[C] 24

[D] 26

Answer : [D]

Explanation:

Let the number of hens be x and the number of cows be y.
Then, $x + y = 48$ .... (i)
and $2x + 4y = 140 \Rightarrow x + 2y = 70$ .... (ii)
Solving (i) and (ii) we get: $x = 26$, $y = 22$.
$\therefore$ The required answer = 26.

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(16) Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is:

[A] 9

[B] 11

[C] 13

[D] 15

Answer : [D]

Explanation:

Let the three integers be x, $x + 2$ and $x + 4$.
Then, $3x = 2(x + 4) + 3 \Leftrightarrow x = 11$.
$\therefore$ Third integer = $x + 4 = 15$.

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(17) If one-third of one-fourth of a number is 15, then three-tenth of that number is:

[A] 35

[B] 36

[C] 45

[D] 54

Answer : [D]

Explanation:
Let the number be x.
Then, $\frac{1}{3}$ of $\frac{1}{4}$ of $x = 15 \Leftrightarrow x = 15 \times 12 = 180$.

So, required number = $\left(\frac{3}{10} \times 180\right) = 54$.

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(18) In a two-digit, if it is known that its unit's digit exceeds its ten's digit by 2 and that the product of the given number and the sum of its digits is equal to 144, then the number is:

[A] 24

[B] 26

[C] 42

[D] 46

Answer : [A]

Explanation:
Let the ten's digit be x.
Then, unit's digit = $x + 2$.
Number = $10x + (x + 2) = 11x + 2$.
Sum of digits = $x + (x + 2) = 2x + 2$.
$\therefore (11x + 2)(2x + 2) = 144$
$\Rightarrow 22x^2 + 26x - 140 = 0$
$\Rightarrow 11x^2 + 13x - 70 = 0$
$\Rightarrow (x - 2)(11x + 35) = 0$
$\Rightarrow x = 2$.
Hence, required number = $11x + 2 = 24$.

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(19) A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:

[A] 145

[B] 253

[C] 370

[D] 352

Answer : [B]

Explanation:
Let the middle digit be x.
Then, $2x = 10$ or $x = 5$. So, the number is either 253 or 352.
Since the number increases on reversing the digits, so the hundred's digits is smaller than the unit's digit.
Hence, required number = 253.

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(20) What is the sum of two consecutive even numbers, the difference of whose squares is 84?

[A] 34

[B] 38

[C] 42

[D] 46

Answer : [C]

Explanation:
Let the numbers be x and $x + 2$.
Then, $(x + 2)^2 - x^2 = 84$
$\Rightarrow 4x + 4 = 84$
$\Rightarrow 4x = 80$
$\Rightarrow x = 20$.
$\therefore$ The required sum = $x + (x + 2) = 2x + 2 = 42$.
