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Syndicate Bank TA Aptitude Sample Paper



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(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:

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

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

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

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

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

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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:

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

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

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

Therefore, the whole work will be done by A in $(20 \times 3) = 60$ 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.

$$5 : 4 :: 20 : x \Rightarrow x = \left(\frac{4 \times 20}{5} \right)$$

$\Rightarrow x = 16$ days.

Hence, Tanya takes 16 days to complete the work.

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(4) A works twice as fast as B. If B can complete a work in 12 days independently, the number of days in which A and B can together finish the work in :

[A] 4 days

[B] 6 days

[C] 8 days

[D] 18 days

Answer : [A]

Explanation:

Ratio of rates of working of A and B = $2 : 1$.

So, ratio of times taken = $1 : 2$.

$$\text{B's 1 day's work} = \frac{1}{12}.$$

$$\therefore \text{A's 1 day's work} = \frac{1}{6}; \text{ (2 times of B's work)}$$

$$\text{(A + B)'s 1 day's work} = \left(\frac{1}{6} + \frac{1}{12} \right) = \frac{3}{12} = \frac{1}{4}.$$

So, A and B together can finish the work in 4 days.

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(5) A and B can do a job together in 7 days. A is $1\frac{3}{4}$ times as efficient as B. The same job can be done by A alone in :

[A]

$9\frac{1}{3}$ days

[B] 11 days

[C]

1

$12\frac{3}{4}$ days

[D]

$16\frac{1}{3}$ days

Answer : [B]

Explanation:

$$(A's\ 1\ day's\ work) : (B's\ 1\ day's\ work) = \frac{7}{4} : 1 = 7 : 4.$$

Let A's and B's 1 day's work be $7x$ and $4x$ respectively.

$$\text{Then, } 7x + 4x = \frac{1}{7} \Rightarrow 11x = \frac{1}{7} \Rightarrow x = \frac{1}{77}.$$

$$\therefore A's\ 1\ day's\ work = \left(\frac{1}{77} \times 7\right) = \frac{1}{11}.$$

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(6) What percentage of numbers from 1 to 70 have 1 or 9 in the unit's digit?

[A] 1

[B] 14

[C] 20

[D] 21

Answer : [C]

Explanation:

Clearly, the numbers which have 1 or 9 in the unit's digit, have squares that end in the digit 1. Such numbers from 1 to 70 are 1, 9, 11, 19, 21, 29, 31, 39, 41, 49, 51, 59, 61, 69.

Number of such number = 14

$$\therefore \text{Required percentage} = \left(\frac{14}{70} \times 100\right)\% = 20\%.$$

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(7) Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:

[A] 39, 30

[B] 41, 32

[C] 42, 33

[D] 43, 34

Answer : [C]

Explanation:

Let their marks be $(x + 9)$ and x .

$$\text{Then, } x + 9 = \frac{56}{100}(x + 9 + x)$$

$$\Rightarrow 25(x + 9) = 14(2x + 9)$$

$$\Rightarrow 3x = 99$$

$$\Rightarrow x = 33$$

So, their marks are 42 and 33.

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(8) If 20% of $a = b$, then $b\%$ of 20 is the same as:

[A] 4% of a

[B] 5% of a

[C] 20% of a

[D] None of these

Answer : [A]

Explanation:

$$20\% \text{ of } a = b \Rightarrow \frac{20}{100}a = b.$$

$$\therefore b\% \text{ of } 20 = \left(\frac{b}{100} \times 20 \right) = \left(\frac{20}{100}a \times \frac{1}{100} \times 20 \right) = \frac{4}{100}a = 4\% \text{ of } a.$$

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(9)

A student multiplied a number by $\frac{3}{5}$ instead of $\frac{5}{3}$.

What is the percentage error in the calculation?

[A] 34%

[B] 44%

[C] 54%

[D] 64%

Answer : [D]

Explanation:

Let the number be x .

$$\text{Then, error} = \frac{5}{3}x - \frac{3}{5}x = \frac{16}{15}x.$$

$$\text{Error}\% = \left(\frac{16x}{15} \times \frac{3}{5x} \times 100 \right)\% = 64\%.$$

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(10) The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is:

[A] 4.37%

[B] 5%

[C] 6%

[D] 8.75%

Answer : [B]

Explanation:

$$\text{Increase in 10 years} = (262500 - 175000) = 87500.$$

$$\text{Increase}\% = \left(\frac{87500}{175000} \times 100 \right)\% = 50\%.$$

$$\therefore \text{Required average} = \left(\frac{50}{10} \right)\% = 5\%.$$

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(11) 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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(12) 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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(13) The sum of the squares of three numbers is 138, while the sum of their products taken two at a time is 131. Their sum is:

- [A] 20
- [B] 30
- [C] 40
- [D] None of these

Answer : [A]

Explanation:

Let the numbers be a , b and c .
Then, $a^2 + b^2 + c^2 = 138$ and $(ab + bc + ca) = 131$.
 $(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca) = 138 + 2 \times 131 = 400$.
 $\Rightarrow (a + b + c) = \sqrt{400} = 20$.

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(14) The sum of the digits of a two-digit number is 15 and the difference between the digits is 3. What is the two-digit number?

- [A] 69
- [B] 78
- [C] 96

[D] Cannot be determined

[E] None of these

Answer : [D]

Explanation:

Let the ten's digit be x and unit's digit be y .

Then, $x + y = 15$ and $x - y = 3$ or $y - x = 3$.

Solving $x + y = 15$ and $x - y = 3$, we get: $x = 9$, $y = 6$.

Solving $x + y = 15$ and $y - x = 3$, we get: $x = 6$, $y = 9$.

So, the number is either 96 or 69.

Hence, the number cannot be determined.

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(15) The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:

[A] 20

[B] 23

[C] 169

[D] None of these

Answer : [B]

Explanation:

Let the numbers be x and y .

Then, $xy = 120$ and $x^2 + y^2 = 289$.

$$\therefore (x + y)^2 = x^2 + y^2 + 2xy = 289 + (2 \times 120) = 529$$

$$\therefore x + y = \sqrt{529} = 23.$$

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(16) The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:

[A] 40%

[B] 42%

[C] 44%

[D] 46%

Answer : [C]

Explanation:

Let original length = x metres and original breadth = y metres.

Original area = (xy) m².

$$\text{New length} = \left(\frac{120}{100}x\right)_m = \left(\frac{6}{5}x\right)_m.$$

$$\text{New breadth} = \left(\frac{120}{100}y\right)_m = \left(\frac{6}{5}y\right)_m.$$

$$\text{New Area} = \left(\frac{6}{5}x \times \frac{6}{5}y\right)_{m^2} = \left(\frac{36}{25}xy\right)_{m^2}.$$

The difference between the original area = xy and new-area $\frac{36}{25}xy$ is

$$= \left(\frac{36}{25}xy\right) - xy$$

$$= xy\left(\frac{36}{25} - 1\right)$$

$$= xy\left(\frac{11}{25}\right) \text{ or } \left(\frac{11}{25}\right)xy$$

$$\therefore \text{Increase \%} = \left(\frac{11}{25}xy \times \frac{1}{xy} \times 100\right)\% = 44\%.$$

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(17) A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?

- [A] 2.91 m
 [B] 3 m
 [C] 5.82 m
 [D] None of these

Answer : [B]

Explanation:

$$\text{Area of the park} = (60 \times 40) \text{ m}^2 = 2400 \text{ m}^2.$$

$$\text{Area of the lawn} = 2109 \text{ m}^2.$$

$$\therefore \text{Area of the crossroads} = (2400 - 2109) \text{ m}^2 = 291 \text{ m}^2.$$

Let the width of the road be x metres. Then,

$$60x + 40x - x^2 = 291$$

$$\Rightarrow x^2 - 100x + 291 = 0$$

$$\Rightarrow (x - 97)(x - 3) = 0$$

$$\Rightarrow x = 3.$$

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(18) A towel, when bleached, was found to have lost 20% of its length and 10% of its breadth. The percentage of decrease in area is:

- [A] 10%
 [B] 10.08%
 [C] 20%
 [D] 28%

Answer : [D]

Explanation:

Let original length = x and original breadth = y .

$$\text{Decrease in area} = xy - \left(\frac{80}{100}x \times \frac{90}{100}y \right)$$

$$= \left(xy - \frac{18}{25}xy \right)$$

$$= \frac{7}{25}xy.$$

$$\therefore \text{Decrease \%} = \left(\frac{7}{25}xy \times \frac{1}{xy} \times 100 \right) \% = 28\%.$$

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(19) The diagonal of a rectangle is 41 cm and its area is 20 sq. cm. The perimeter of the rectangle must be:

- [A] 9 cm
 [B] 18 cm
 [C] 20 cm
 [D] 41 cm

Answer : [B]

Explanation:

$$l^2 + b^2 = 41.$$

$$\text{Also, } lb = 20.$$

$$(l + b)^2 = (l^2 + b^2) + 2lb = 41 + 40 = 81$$

$$\Rightarrow (l + b) = 9.$$

$$\therefore \text{Perimeter} = 2(l + b) = 18 \text{ cm.}$$

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(20) A tank is 25 m long, 12 m wide and 6 m deep. The cost of plastering its walls and bottom at 75 paise per sq. m, is:

[A] Rs. 456

[B] Rs. 458

[C] Rs. 558

[D] Rs. 568

Answer : [C]

Explanation:

$$\text{Area to be plastered} = [2(l + b) \times h] + (l \times b)$$

$$= \{2(25 + 12) \times 6\} + (25 \times 12) \text{ m}^2$$

$$= (444 + 300) \text{ m}^2$$

$$= 744 \text{ m}^2.$$

$$\therefore \text{Cost of plastering} = \text{Rs.} \left(744 \times \frac{75}{100} \right) = \text{Rs.} 558.$$

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