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Marks : 20/20

Total number of questions	:	20
Number of answered questions	:	20
Number of unanswered questions	:	0

Test Review : View answers and explanation for this test.

1. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is:

- ☐ A. 6.06% ❌
- ☐ B. 6.07% ❌
- ☐ C. 6.08% ❌
- ☒ D. 6.09% ✅

Your Answer: Option D

Correct Answer: Option D

Explanation:





$$\left. \begin{array}{l} \text{Amount of Rs. 100 for 1 year} \\ \text{when compounded half-yearly} \end{array} \right\} = \text{Rs.} \left[100 \times \left(1 + \frac{3}{100} \right)^2 \right] = \text{Rs. 106.09}$$



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2. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?

- ☒ A. 57% 
☐ B. 60% 
☐ C. 65% 
☐ D. 90% 

Your Answer: Option A

Correct Answer: Option A

Explanation:





Total number of votes polled = $(1136 + 7636 + 11628) = 20400$.

$$\therefore \text{Required percentage} = \left(\frac{11628}{20400} \times 100 \right) \% = 57\%.$$

Learn more problems on : [Percentage](#)

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3. 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% 

Your Answer: Option B

Correct Answer: Option B

Explanation:

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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4. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

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☒ D. 20 

Your Answer: Option D

Correct Answer: Option D

Explanation:

Here, $S = \{1, 2, 3, 4, \dots, 19, 20\}$.


Let E = event of getting a multiple of 3 or 5 = $\{3, 6, 9, 12, 15, 18, 5, 10, 20\}$.

$$\therefore P(E) = \frac{n(E)}{n(S)} = \frac{9}{20}$$

Learn more problems on : [Probability](#)

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5. A, B, C rent a pasture. A puts 10 oxen for 7 months, B puts 12 oxen for 5 months and C puts 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175, how much must C pay as his share of rent?

- ☒ A. Rs. 45 
☐ B. Rs. 50 
☐ C. Rs. 55 
☐ D. Rs. 60 

Your Answer: Option A

Correct Answer: Option A

Explanation:

$$A : B : C = (10 \times 7) : (12 \times 5) : (15 \times 3) = 70 : 60 : 45 = 14 : 12 : 9.$$

$$\therefore \text{C's rent} = \text{Rs.} \left(175 \times \frac{9}{35} \right) = \text{Rs. } 45.$$

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6. If 40% of a number is equal to two-third of another number, what is the ratio of first number to the second number?

- ☐ A. 2 : 5 
☐ B. 3 : 7 
☒ C. 5 : 3 
☐ D. 7 : 3 

Your Answer: Option C

 Correct Answer: Option C

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$$\Rightarrow \frac{2A}{5} = \frac{2B}{3}$$

$$\Rightarrow \frac{A}{B} = \left(\frac{2 \times 5}{3 \times 2} \right) = \frac{5}{3}$$

$$\therefore A : B = 5 : 3.$$

Learn more problems on : [Ratio and Proportion](#)

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7. Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?

- ☒ A. 2 times ✓
- ☐ B. $2\frac{1}{2}$ times ✗
- ☐ C. $2\frac{3}{4}$ times ✗
- ☐ D. 3 times ✗

Your Answer: Option A

Correct Answer: Option A

Explanation:

Let Ronit's present age be x years. Then, father's present age $= (x + 3x)$ years $= 4x$ years.

$$\therefore (4x + 8) = \frac{5}{2}(x + 8)$$

$$\Rightarrow 8x + 16 = 5x + 40$$

$$\Rightarrow 3x = 24$$

$$\Rightarrow x = 8.$$

$$\text{Hence, required ratio} = \frac{(4x + 16)}{(x + 16)} = \frac{48}{24} = 2.$$

Learn more problems on : [Problems on Ages](#)

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8. The curved surface area of a cylindrical pillar is 264 m^2 and its volume is 924 m^3 . Find the ratio of its diameter to its height.

- ☐ A. 3 : 7 ✗
- ☒ B. 7 : 3 ✓

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Explanation:

$$\frac{\pi r^2 h}{2\pi r h} = \frac{924}{264} \Rightarrow r = \left(\frac{924}{264} \times 2 \right) = 7 \text{ m.}$$

$$\text{And, } 2\pi r h = 264 \Rightarrow h = \left(264 \times \frac{7}{22} \times \frac{1}{2} \times \frac{1}{7} \right) = 6 \text{ m.}$$

$$\therefore \text{ Required ratio} = \frac{2r}{h} = \frac{14}{6} = 7 : 3.$$

Learn more problems on : [Volume and Surface Area](#)Discuss about this problem : [Discuss in Forum](#)

9. $(17)^{3.5} \times (17)^? = 17^8$

☐ A. 2.29 ✖☐ B. 2.75 ✖☐ C. 4.25 ✖☒ D. 4.5 ✔

Your Answer: Option D

Correct Answer: Option D

Explanation:

$$\text{Let } (17)^{3.5} \times (17)^x = 17^8.$$

$$\text{Then, } (17)^{3.5+x} = 17^8.$$

$$\therefore 3.5 + x = 8$$

$$\Rightarrow x = (8 - 3.5)$$

$$\Rightarrow x = 4.5$$

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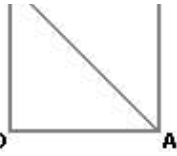
10. A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?

☐ A. 20 ✖☐ B. 24 ✖☒ C. 30 ✔☐ D. 33 ✖

Your Answer: Option C

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Then, $AB + BC = 2x$ metres.

$$AC = 2x = (1.41x) \text{ m.}$$

$$\text{Saving on } 2x \text{ metres} = (0.59x) \text{ m.}$$

$$\text{Saving \%} = \left(\frac{0.59x}{2x} \times 100 \right) \% = 30\% \text{ (approx.)}$$

Learn more problems on : [Area](#)

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11. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is:

- ☐ A. 1 ✗
☒ B. 2 ✓
☐ C. 3 ✗
☐ D. 4 ✗

Your Answer: Option B

Correct Answer: Option B

Explanation:

Let the numbers $13a$ and $13b$.

$$\text{Then, } 13a \times 13b = 2028$$

$$\Rightarrow ab = 12.$$

Now, the co-primes with product 12 are (1, 12) and (3, 4).

[Note: Two integers a and b are said to be **coprime** or relatively prime if they have no common positive factor other than 1 or, equivalently, if their greatest common divisor is 1]

So, the required numbers are $(13 \times 1, 13 \times 12)$ and $(13 \times 3, 13 \times 4)$.

Clearly, there are 2 such pairs.

Learn more problems on : [Problems on H.C.F and L.C.M](#)

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12. Goods were bought for Rs. 600 and sold the same for Rs. 688.50 at a credit of 9 months and thus gaining 2% The rate of interest per annum is:

Your Answer: Option A

Correct Answer: Option A

Explanation:

$$\text{S.P.} = 102\% \text{ of Rs. } 600 = \left(\frac{102}{100} \times 600 \right) = \text{Rs. } 612.$$

Now, P.W. = Rs. 612 and sum = Rs. 688.50.

$$\therefore \text{T.D.} = \text{Rs. } (688.50 - 612) = \text{Rs. } 76.50.$$

Thus, S.I. on Rs. 612 for 9 months is Rs. 76.50.

$$\therefore \text{Rate} = \left[\frac{100 \times 76.50}{612 \times \frac{3}{4}} \right] \% = 16\frac{2}{3}\%$$

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13. The true discount on Rs. 2562 due 4 months hence is Rs. 122. The rate percent is:

☐ A. 12% ✖

☐ B. $13\frac{1}{3}\%$ ✖

☒ C. 15% ✔

☐ D. 14% ✖

Your Answer: Option C

Correct Answer: Option C

Explanation:

$$\text{P.W.} = \text{Rs. } (2562 - 122) = \text{Rs. } 2440.$$

$$\therefore \text{S.I. on Rs. } 2440 \text{ for 4 months is Rs. } 122.$$

$$\therefore \text{Rate} = \left[\frac{100 \times 122}{2440 \times \frac{1}{3}} \right] \% = 15\%.$$

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☐ E. 127 ✖

Your Answer: Option C

Correct Answer: Option C

Explanation:

Go on multiplying the number by 2 and adding 1 to it to get the next number.

So, 27 is wrong.

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15. 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 ✖

Your Answer: Option B

Correct Answer: Option 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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16. A and B can complete a work in 15 days and 10 days respectively. They started doing the work together but after 2 days B had to leave and A alone completed the remaining work. The whole work was completed in :

☐ A. 8 days ✖

☐ B. 10 days ✖

☒ C. 12 days ✔

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$$(A + B)\text{'s 1 day's work} = \left(\frac{1}{15} + \frac{1}{10}\right) = \frac{1}{6}.$$

$$\text{Work done by A and B in 2 days} = \left(\frac{1}{6} \times 2\right) = \frac{1}{3}.$$

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

Now, $\frac{1}{15}$ work is done by A in 1 day.

$$\therefore \frac{2}{3} \text{ work will be done by a in } \left(15 \times \frac{2}{3}\right) = 10 \text{ days.}$$

Hence, the total time taken = $(10 + 2) = 12$ days.

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17. 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 ✗

Your Answer: Option A

Correct Answer: Option A

Explanation:

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

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

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

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

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

Learn more problems on : [Time and Work](#)

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18. The banker's discount on a bill due 4 months hence at 15% is Rs. 420. The true discount is:

- ☒ A.Rs. 400 ✔
- ☐ B.Rs. 360 ✘
- ☐ C.Rs. 480 ✘
- ☐ D.Rs. 320 ✘

Your Answer: Option A

Correct Answer: Option A

Explanation:

$$\begin{aligned}
 \text{T.D.} &= \frac{\text{B.D.} \times 100}{100 + (\text{R} \times \text{T})} \\
 &= \text{Rs.} \left[\frac{420 \times 100}{100 + \left(15 \times \frac{1}{3}\right)} \right] \\
 &= \text{Rs.} \left(\frac{420 \times 100}{105} \right) \\
 &= \text{Rs. 400.}
 \end{aligned}$$

Learn more problems on : [Banker's Discount](#)

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19. The banker's gain on a certain sum due $1\frac{1}{2}$ years hence is $\frac{3}{25}$ of the banker's

discount. The rate percent is:

- ☐ A. $5\frac{1}{5}\%$ ✘
- ☒ B. $9\frac{1}{11}\%$ ✔
- ☐ C. $8\frac{1}{8}\%$ ✘
- ☐ D. $6\frac{1}{6}\%$ ✘

Your Answer: Option B

Correct Answer: Option B

Explanation:

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$$\text{Sum} = \left(\frac{1 \times (22/25)}{1 - (22/25)} \right) = \text{Rs. } \frac{22}{3}.$$

S.I. on Rs. $\frac{22}{3}$ for $1\frac{1}{2}$ years is Re. 1.

$$\therefore \text{Rate} = \left(\frac{100 \times 1}{\frac{22}{3} \times \frac{3}{2}} \right) \% = \frac{100}{11} = 9\frac{1}{11} \%.$$

Learn more problems on : [Banker's Discount](#)

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Direction (for Q.No. 20):

Each of the questions given below consists of a question followed by three statements. You have to study the question and the statements and decide which of the statement(s) is/are necessary to answer the question.

20. What is the area of the hall?

I. Material cost of flooring per square metre is Rs. 2.50

II. Labour cost of flooring the hall is Rs. 3500

III. Total cost of flooring the hall is Rs. 14,500.

☐ A. I and II only ✗

☐ B. Any two of the three ✗

☒ C. All I, II and III ✓

Correct Answer: Option C

Explanation:

I. Material cost = Rs. 2.50 per m²

II. Labour cost = Rs. 3500.

III. Total cost = Rs. 14,500.

Let the area be A sq. metres.

\therefore Material cost = Rs. (14500 - 3500) = Rs. 11,000.

$$\therefore \frac{5A}{2} = 11000 \Leftrightarrow A = \left(\frac{11000 \times 2}{5} \right) = 4400 \text{ m}^2.$$

☐ D. Any two of the three ✗

☐ E. None of these ✗

^ Thus, all I, II and III are needed to get the answer.

