

Online Aptitude Test :: Aptitude Test 3

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Marks : 18/20

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. A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

- A 250
- B 276
- C 280
- D 285 

Your Answer: Option D

Correct Answer: Option D

Explanation:

Since the month begins with a Sunday, there will be five Sundays in the month.

$$\begin{aligned}\text{Required average} &= \left(\frac{510 \times 5 + 240 \times 25}{30} \right) \\ &= \frac{8550}{30} \\ &= 285\end{aligned}$$

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[#]

2. The average monthly income of P and Q is Rs. 5050. The average monthly income of Q and R is Rs. 6250 and the average monthly income of P and R is Rs. 5200. The monthly income of P is:

- A 3500
- B 4000 ✓
- C 4050
- D 5000

Your Answer: Option B

Correct Answer: Option B

Explanation:

Let P, Q and R represent their respective monthly incomes. Then, we have:

$$P + Q = (5050 \times 2) = 10100 \dots \text{(i)}$$

$$Q + R = (6250 \times 2) = 12500 \dots \text{(ii)}$$

$$P + R = (5200 \times 2) = 10400 \dots \text{(iii)}$$

Adding (i), (ii) and (iii), we get: $2(P + Q + R) = 33000$ or $P + Q + R = 16500 \dots \text{(iv)}$

Subtracting (ii) from (iv), we get $P = 4000$.

\therefore P's monthly income = Rs. 4000.

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[#]

3. The sum of two number is 25 and their difference is 13. Find their product.

- A 104
- B 114 ✓
- C 315
- D 325

Your Answer: Option **B**

Correct Answer: Option **B**

Explanation:

Let the numbers be x and y .

Then, $x + y = 25$ and $x - y = 13$.

$$4xy = (x + y)^2 - (x - y)^2$$

$$= (25)^2 - (13)^2$$

$$= (625 - 169)$$

$$= 456$$

$$\therefore xy = 114.$$

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[#]

► Direction (Q.No. 4)

Each of the questions given below consists of a statement and / or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is / are sufficient to answer the given question. Read the both statements and

Give answer (A) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question.

Give answer (B) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question.

Give answer (C) if the data either in Statement I or in Statement II alone are sufficient to answer the question.

Give answer (D) if the data even in both Statements I and II together are not sufficient to answer the question.

Give answer(E) if the data in both Statements I and II together are necessary to answer the question.

4. What is the number?

I. The sum of the two digits is 8. The ratio of the two digits is 1 : 3.

II. The product of the two digit of a number is 12. The quotient of two digits is 3.

- A** I alone sufficient while II alone not sufficient to answer
- B** II alone sufficient while I alone not sufficient to answer
- C** Either I or II alone sufficient to answer ✓
- D** Both I and II are not sufficient to answer
- E** Both I and II are necessary to answer

Your Answer: Option **(C)**

Correct Answer: Option **(C)**

Explanation:

Let the tens and units digit be x and y respectively. Then,

$$\text{I. } x + y = 8 \text{ and } \frac{x}{y} = \frac{1}{3}$$

$$\therefore \text{I gives, } 4y = 24 \Leftrightarrow y = 6.$$

$$\text{So, } x + 6 = 8 \Leftrightarrow x = 2.$$

$$\text{II. } xy = 12 \text{ and } \frac{x}{y} = \frac{3}{1}$$

$$\therefore \text{II gives, } x^2 = 36 \Leftrightarrow x = 6.$$

$$\text{So, } 3y = 6 \Leftrightarrow y = 2.$$

Therefore, Either I or II alone sufficient to answer.

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[#]

5. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

- A** 7
- B** 8
- C** 9

10 11**Your Answer:** Option D**Correct Answer:** Option D**Explanation:**

Let C's age be x years. Then, B's age = $2x$ years. A's age = $(2x + 2)$ years.

$$\therefore (2x + 2) + 2x + x = 27$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = 5.$$

Hence, B's age = $2x = 10$ years.

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[#]

6. $(17)^{3.5} \times (17)^? = 17^8$

 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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[#]

7. If $x = 3 + 2\sqrt{2}$, then the value of $\left(x - \frac{1}{x}\right)$ is:

- A 1
- B 2 ✓
- C $2\sqrt{2}$
- D 3 3

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$\begin{aligned}
 \left(x - \frac{1}{x}\right)^2 &= x + \frac{1}{x} - 2 \\
 &= (3 + 2\sqrt{2}) + \frac{1}{(3 + 2\sqrt{2})} - 2 \\
 &= (3 + 2\sqrt{2}) + \frac{1}{(3 + 2\sqrt{2})} \times \frac{(3 - 2\sqrt{2})(3 - 2\sqrt{2})}{(3 - 2\sqrt{2})(3 - 2\sqrt{2})} - 2 \\
 &= (3 + 2\sqrt{2}) + (3 - 2\sqrt{2}) - 2 \\
 &= 4. \\
 \therefore \left(x - \frac{1}{x}\right) &= 2.
 \end{aligned}$$

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[#]

8. A and B together have Rs. 1210. If $\frac{4}{15}$ of A's amount is equal to $\frac{2}{5}$ of B's amount, how much amount does B have?

- A Rs. 460
- B Rs. 484 ✓

C Rs. 550 **D** Rs. 664**Your Answer:** Option **B****Correct Answer:** Option **B****Explanation:**

$$\frac{4}{15} A = \frac{2}{5} B$$

$$\Rightarrow A = \left(\frac{2}{5} \times \frac{15}{4} \right) B$$

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

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

$$\Rightarrow A : B = 3 : 2.$$

$$\therefore B's\ share = \text{Rs. } \left(1210 \times \frac{2}{5} \right) = \text{Rs. } 484.$$

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[#]

9. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is:

 A 16 hours **B** 18 hours **C** 20 hours **D** 24 hours **Your Answer:** Option **D****Correct Answer:** Option **D****Explanation:**

Speed upstream = 7.5 kmph.

Speed downstream = 10.5 kmph.

$$\therefore \text{Total time taken} = \left(\frac{105}{7.5} + \frac{105}{10.5} \right) \text{hours} = 24 \text{ hours.}$$

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Learn more problems on : [Boats and Streams](#)

[#]

10. A sum fetched a total simple interest of Rs. 4016.25 at the rate of 9 p.c.p.a. in 5 years. What is the sum?

- ⓐ Rs. 4462.50
- ⓑ Rs. 8032.50
- ⓒ Rs. 8900
- ⓔ Rs. 8925 ✓
- ⓕ None of these

Your Answer: Option ⓔ

Correct Answer: Option ⓔ

Explanation:

$$\begin{aligned}\text{Principal} &= \text{Rs.} \left(\frac{100 \times 4016.25}{9 \times 5} \right) \\ &= \text{Rs.} \left(\frac{401625}{45} \right) \\ &= \text{Rs.} 8925.\end{aligned}$$

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[#]

11. A person takes a loan of Rs. 200 at 5% simple interest. He returns Rs. 100 at the end of 1 year. In order to clear his dues at the end of 2 years, he would pay:

- ⓐ Rs. 105

- B** Rs. 110
- C** Rs. 115 ✓
- D** Rs. 115.50 ✗

Your Answer: Option **(D)**

Correct Answer: Option **(C)**

Explanation:

$$\text{Amount to be paid} = \text{Rs.} \left(100 + \frac{200 \times 5 \times 1}{100} + \frac{100 \times 5 \times 1}{100} \right) \\ = \text{Rs.} 115.$$

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[#]

12. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is:

- A** 1520 m²
- B** 2420 m²
- C** 2480 m²
- D** 2520 m² ✓

Your Answer: Option **(D)**

Correct Answer: Option **(D)**

Explanation:

We have: $(l - b) = 23$ and $2(l + b) = 206$ or $(l + b) = 103$.

Solving the two equations, we get: $l = 63$ and $b = 40$.

\therefore Area = $(l \times b) = (63 \times 40) \text{ m}^2 = 2520 \text{ m}^2$.

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[#]

13. What was the day of the week on 28th May, 2006?

- A Thursday
- B Friday
- C Saturday
- D Sunday ✓

Your Answer: Option D

Correct Answer: Option D

Explanation:

28 May, 2006 = (2005 years + Period from 1.1.2006 to 28.5.2006)

Odd days in 1600 years = 0

Odd days in 400 years = 0

5 years = (4 ordinary years + 1 leap year) = $(4 \times 1 + 1 \times 2) \equiv 6$ odd days

Jan. Feb. March April May $(31 + 28 + 31 + 30 + 28) = 148$ days

$\therefore 148 \text{ days} = (21 \text{ weeks} + 1 \text{ day}) \equiv 1 \text{ odd day.}$

Total number of odd days = $(0 + 0 + 6 + 1) = 7 \equiv 0$ odd day.

Given day is Sunday.

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[#]

14. The angle between the minute hand and the hour hand of a clock when the time is 8.30, is:

- A 80°
- B 75° ✓
- C 60°
- D 105°

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$\text{Angle traced by hour hand in } \frac{17}{2} \text{ hrs} = \left(\frac{360}{12} \times \frac{17}{2} \right)^\circ = 255^\circ.$$

$$\text{Angle traced by min. hand in 30 min.} = \left(\frac{360}{60} \times 30 \right)^\circ = 180^\circ.$$

$$\therefore \text{Required angle} = (255 - 180)^\circ = 75^\circ.$$

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[#]

15. The angle between the minute hand and the hour hand of a clock when the time is 4.20, is:

- A 0°
- B 10° ✓
- C 5°
- D 20°

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$\text{Angle traced by hour hand in } \frac{13}{3} \text{ hrs} = \left(\frac{360}{12} \times \frac{13}{3} \right)^\circ = 130^\circ.$$

$$\text{Angle traced by min. hand in 20 min.} = \left(\frac{360}{60} \times 20 \right)^\circ = 120^\circ.$$

$$\therefore \text{Required angle} = (130 - 120)^\circ = 10^\circ.$$

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[#]

16. At what angle the hands of a clock are inclined at 15 minutes past 5?

- A $58\frac{1}{2}$ °

- B** 64°
- C** $67 \frac{1}{2}^\circ$
- D** $72 \frac{1}{2}^\circ$

Your Answer: Option **(C)**

Correct Answer: Option **(C)**

Explanation:

$$\text{Angle traced by hour hand in } \frac{21}{4} \text{ hrs} = \left(\frac{360}{12} \times \frac{21}{4} \right)^\circ = 157\frac{1}{2}^\circ$$

$$\text{Angle traced by min. hand in 15 min.} = \left(\frac{360}{60} \times 15 \right)^\circ = 90^\circ.$$

$$\therefore \text{Required angle} = \left(157\frac{1}{2} \right)^\circ - 90^\circ = 67\frac{1}{2}^\circ$$

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[#]

17. At what time between 9 and 10 o'clock will the hands of a watch be together?

- A** 45 min. past 9
- B** 50 min. past 9
- C** $49\frac{1}{11}$ min. past 9
- D** $48\frac{2}{11}$ min. past 9

Your Answer: Option **(C)**

Correct Answer: Option **(C)**

Explanation:

To be together between 9 and 10 o'clock, the minute hand has to gain 45 min. spaces.

55 min. spaces gained in 60 min.

45 min. spaces are gained in $\left(\frac{60}{55} \times 45\right)$ min or $49\frac{1}{11}$ min.

\therefore The hands are together at $49\frac{1}{11}$ min. past 9.

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[#]

18. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?

A 63 ✓

B 90

C 126

D 45

E 135

Your Answer: Option A

Correct Answer: Option A

Explanation:

$$\text{Required number of ways} = ({}^7C_5 \times {}^3C_2) = ({}^7C_2 \times {}^3C_1) = \left(\frac{7 \times 6}{2 \times 1} \times 3 \right) = 63.$$

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[#]

► Direction (Q.No. 19)

Find out the wrong number in the given sequence of numbers.

19. 8, 13, 21, 32, 47, 63, 83

A 47 ✓

B 63 ✗

C 32

④ 83**Your Answer:** Option ④**Correct Answer:** Option ④**Explanation:**

Go on adding 5, 8, 11, 14, 17, 20.

So, the number 47 is wrong and must be replaced by 46.

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[#]

► Direction (Q.No. 20)

Insert the missing number.

20. 1, 4, 9, 16, 25, 36, 49, (....)

 ④ 54 ④ 56 ④ 64 ✓ ④ 81**Your Answer:** Option ④**Correct Answer:** Option ④**Explanation:**

Numbers are $1^2, 2^2, 3^2, 4^2, 5^2, 6^2, 7^2$.

So, the next number is $8^2 = 64$.

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