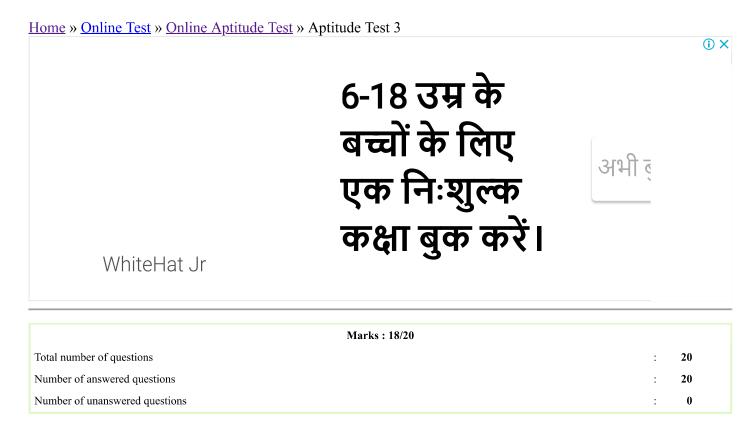
8/6/22, 7:25 PM Test Result



Home Aptitude Logical Verbal CA Current Affairs GK Engineering Interview Online Tests Puzzles

Online Aptitude Test :: Aptitude Test 3



Test Review: View answers and explanation for this test.

1. 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 ②
□ C.4050 ×
□ D.5000 ×
Your Answer: Option B
Correct Answer: Option B
Explanation:
—··I········
Let P. O and R represent their respective monthly incomes. Then, we have:

Adding (i), (ii) and (iii), we get: 2(P + Q + R) = 33000 or P + Q + R = 16500 (iv)

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

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

Learn more problems on : Average

Discuss about this problem: Discuss in Forum

2.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, to there will be five Sundays in the month.

Learn more problems on : <u>Average</u>

Discuss about this problem: Discuss in Forum

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.

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

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

$$= (625 - 160)$$

Learn more problems on : <u>Problems on Numbers</u>

Discuss about this problem: Discuss in Forum

Direction (for 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,

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

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

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

II.
$$xy = 12$$
 and $_{v}^{x} = _{1}^{3}$

$$\therefore$$
 II gives, $x^2 = 36 \iff x = 6$.

So,
$$3v = 6 \Leftrightarrow v = 2$$
.

Therefore, Either I or II alone sufficient to answer.



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 💥
- ✓ D.10
- E. 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.

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

$$\Rightarrow$$
 5 $x = 25$

$$\Rightarrow x = 5$$
.

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

Learn more problems on : Problems on Ages

Discuss about this problem: <u>Discuss in Forum</u>

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:

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

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

$$3.5 + x = 8$$

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

$$\Rightarrow x = 4.5$$

Learn more problems on : <u>Surds and Indices</u>

Discuss about this problem: Discuss in Forum

7. If x = 3 + 22, then the value of $\left(x - \frac{1}{x}\right)$ is:

✓ D.33 🕷

Your Answer: Option D

Correct Answer: Option B

Explanation:

$$\left(x - \frac{1}{x}\right) 2 = x + \frac{1}{x} - 2$$

$$=(3+22)+\frac{1}{(3+22)}-2$$

=
$$(3+22) + \frac{1}{(3+22)}x(3-22) - 2$$

$$=(3+22)+(3-22)-2$$

= 4.

$$\therefore \left(x - \frac{1}{x}\right) = 2.$$

Learn more problems on : Surds and Indices

Discuss about this problem: Discuss in Forum

- 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:

$$^{4}_{15}A = ^{2}_{5}B$$

$$\Rightarrow A = \begin{pmatrix} 2 & 15 \\ 5 & 4 \end{pmatrix}_{B}$$

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

$$\Rightarrow_{\mathrm{B}}^{\mathrm{A}} =_{2}^{3}$$

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



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.

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

Learn more problems on : Boats and Streams

Discuss about this problem: Discuss in Forum

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?

■ A.Rs. 4462.50 💥

■ B.Rs. 8032.50 💥

C.Rs. 8900 🗱

D.Rs. 8925

■ E. None of these 🗱

Your Answer: Option D

Correct Answer: Option D

Explanation:

Principal= Rs.
$$\binom{100 \times 4016.25}{9 \times 5}$$

= Rs. $\binom{401625}{45}$
= Rs. $\binom{8925}{45}$

Learn more problems on : Simple Interest

Discuss about this problem: Discuss in Forum

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:

■ A.Rs. 105 💥

■ B.Rs. 110 💥

C.Rs. 115

D.Rs. 115.50 🗱

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

= Rs. 115.

Learn more problems on : Simple Interest

Discuss about this problem: Discuss in Forum

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

- \square A.1520 m² \bowtie
- \Box B. 2420 m² **¾**
- \square 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 = $(l \times b) = (63 \times 40) \text{ m}^2 = 2520 \text{ m}^2$.

Learn more problems on : Area

Discuss about this problem: Discuss in Forum

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 = $(4 \text{ ordinary years} + 1 \text{ leap year}) = (4 \text{ x } 1 + 1 \text{ x } 2) \equiv 6 \text{ odd days}$

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

 \therefore 148 days = (21 weeks + 1 day) = 1 odd day.



Discuss about this problem: Discuss in Forum

14. 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:

Angle traced by hour hand in ${}^{13}_{3}$ hrs = ${}^{360}_{12}$ ${}^{13}_{3}$ ${}^{\circ}$ = 130°.

Angle traced by min. hand in 20 min. = $\binom{360}{60}$ x 20 \bigcirc ° = 120°.

Required angle = $(130 - 120)^\circ = 10^\circ$.

Learn more problems on: Clock

Discuss about this problem: Discuss in Forum

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

- \square A.58 $^{1}_{2}$ °
- B. 64° **×**
- $\mathbb{Z} \text{ C.67}_{2}^{1} \circ \mathbb{Z}$
- □ D.72¹₂ ×

Your Answer: Option C

Correct Answer: Option C

Explanation:

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

Angle traced by min. hand in 15 min. = $\binom{360}{60}$ x 15 \circ = 90°.

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

Learn more problems on : Clock

Discuss about this problem: Discuss in Forum

16. The angle between the minute hand and the hour hand of a cleak when the time is 9.20 is:

Your Answer: Option B

Correct Answer: Option B

Explanation:

Angle traced by hour hand in ${}^{17}_{2}$ hrs = ${}^{360}_{12}$ x ${}^{17}_{2}$ ${}^{\circ}$ = 255°.

Angle traced by min. hand in 30 min. = $\binom{360}{60}$ x 30 \circ = 180°.

Required angle = $(255 - 180)^\circ = 75^\circ$.

Learn more problems on: Clock

Discuss about this problem: Discuss in Forum

- 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 🕷
 - \square C.49 $\frac{1}{11}$ min. past 9 \square
 - \square D.48 $\frac{2}{11}$ min. past 9 \bowtie

Your Answer: Option A

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 $\binom{60}{55}$ x 45 $\binom{1}{\min \text{ or } 4911}$ min.
- The hands are together at $49\frac{1}{11}$ min. past 9.

Learn more problems on: Clock

Discuss about this problem: Discuss in Forum

- 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

 $\begin{pmatrix} 2 \times 1 \end{pmatrix}$

Learn more problems on: Permutation and Combination

Discuss about this problem: Discuss in Forum

Direction (for 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 💥
- D.83 ¥

Your Answer: Option A

Correct Answer: Option A

Explanation:

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

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

Learn more problems on : Odd Man Out and Series

Discuss about this problem: Discuss in Forum

Direction (for Q.No. 20):

Insert the missing number.

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

- A.54 💥
- B.56 💥
- C.64
- D.81 💥

Your Answer: Option C

Correct Answer: Option C

Explanation:

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

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

Learn more problems on : Odd Man Out and Series

Discuss about this problem: Discuss in Forum