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Online Aptitude Test :: Aptitude Test 5

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Marks : 14/20

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 least multiple of 7, which leaves a remainder of 4, when divided by 6, 9, 15 and 18 is:

- ☐ A. 74 ✗
☒ B. 94 ✗
☐ C. 184 ✗
☐ D. 364 ✓

Your Answer: Option B

Correct Answer: Option D

Explanation:

L.C.M. of 6, 9, 15 and 18 is 90.

Required number be $90k + 4$, which is multiple of 7.

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

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2. The greatest number which on dividing 1657 and 2037 leaves remainders 6 and 5 respectively, is:

- ☐ A. 123 ✖
- ☒ B. 127 ✔
- ☐ C. 235 ✖
- ☐ D. 305 ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

Required number = H.C.F. of (1657 - 6) and (2037 - 5)
= H.C.F. of 1651 and 2032 = 127.

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

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3. 100 oranges are bought at the rate of Rs. 350 and sold at the rate of Rs. 48 per dozen. The percentage of profit or loss is:

- ☐ A. $14\frac{2}{7}\%$ gain ✔
- ☒ B. 15% gain ✖
- ☐ C. $14\frac{2}{7}\%$ loss ✖
- ☐ D. 15 % loss ✖

Your Answer: Option B

Correct Answer: Option A

Explanation:

$$\text{C.P. of 1 orange} = \text{Rs.} \left(\frac{350}{100} \right) = \text{Rs. } 3.50$$

$$\text{S.P. of 1 orange} = \text{Rs.} \left(\frac{48}{12} \right) = \text{Rs. } 4$$

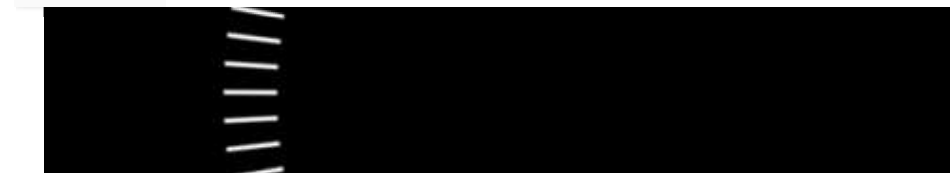
$$\therefore \text{Gain\%} = \left(\frac{0.50}{3.50} \times 100 \right) \% = \frac{100}{7} \% = 14\frac{2}{7}\%$$

Learn more problems on : [Profit and Loss](#)

Discuss about this problem : [Discuss in Forum](#)

4. Seats for Mathematics, Physics and Biology in a school are in the ratio 5 : 7 : 8. There is a proposal to increase these seats by 40%, 50% and 75% respectively. What will be the ratio of increased seats?

1 2 3 4 5



Your Answer: Option A

Correct Answer: Option A

Explanation:

Originally, let the number of seats for Mathematics, Physics and Biology be $5x$, $7x$ and $8x$ respectively.

Number of increased seats are (140% of $5x$), (150% of $7x$) and (175% of $8x$).

$$\Rightarrow \left(\frac{140}{100} \times 5x \right), \left(\frac{150}{100} \times 7x \right) \text{ and } \left(\frac{175}{100} \times 8x \right)$$

$$\Rightarrow 7x, \frac{21x}{2} \text{ and } 14x.$$

$$\therefore \text{The required ratio} = 7x : \frac{21x}{2} : 14x$$

$$\Rightarrow 14x : 21x : 28x$$

$$\Rightarrow 2 : 3 : 4.$$

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

Discuss about this problem : [Discuss in Forum](#)

Direction (for Q.No. 5):

Each of these questions is followed by three statements. You have to study the question and all the three statements given to decide whether any information provided in the statement(s) is redundant and can be dispensed with while answering the given question.

5. Three friends, P, Q and R started a partnership business investing money in the ratio of 5 : 4 : 2 respectively for a period of 3 years. What is the amount received by P as his share profit?

I. Total amount invested in the business in Rs. 22,000.

II. Profit earned at the end of 3 years is $\frac{3}{8}$ of the total investment.

III. The average amount of profit earned per year is Rs. 2750.

- ☐ A. I or II or III ✖
- ☒ B. Either III only, or I and II together ✔
- ☐ C. Any two of the three ✖
- ☐ D. All I, II and III are required. ✖
- ☐ E. None of these ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$\text{I and II give, profit after 3 years} = \text{Rs.} \left(\frac{3}{8} \times 22000 \right) = \text{Rs. } 8250.$$

$$\text{From III also, profit after 3 years} = \text{Rs. } (2750 \times 3) = \text{Rs. } 8250.$$

$$\therefore \text{P's share} = \text{Rs.} \left(8250 \times \frac{5}{9} \right) = \text{Rs. } 4583.33$$

Learn more problems on : [Partnership](#)

Discuss about this problem : [Discuss in Forum](#)

6. If a quarter kg of potato costs 60 paise, how many paise will 200 gm cost?

- ☒ A. 48 paise ✓
☐ B. 54 paise ✗
☐ C. 56 paise ✗
☐ D. 72 paise ✗

Your Answer: Option A

Correct Answer: Option A

Explanation:

Let the required weight be x kg.

Less weight, Less cost (Direct Proportion)

$$\therefore 250 : 200 :: 60 : x \Leftrightarrow 250 \times x = (200 \times 60)$$

$$\Rightarrow x = \frac{(200 \times 60)}{250}$$

$$\Rightarrow x = 48.$$

Learn more problems on : [Chain Rule](#)

Discuss about this problem : [Discuss in Forum](#)

7. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both P and Q work together, working 8 hours a day, in how many days can they complete the work?

- ☒ A. $5\frac{5}{11}$ ✓
☐ B. $5\frac{6}{11}$ ✗
☐ C. $6\frac{5}{11}$ ✗
☐ D. $6\frac{6}{11}$ ✗

Your Answer: Option A

Correct Answer: Option A

Explanation:

P can complete the work in (12×8) hrs. = 96 hrs.

Q can complete the work in (8×10) hrs. = 80 hrs.

$$\therefore \text{P's 1 hour's work} = \frac{1}{96} \text{ and Q's 1 hour's work} = \frac{1}{80}.$$



$$\therefore \text{Number of days of 8 hours each} = \left(\frac{480}{11} \times \frac{1}{8} \right) = \frac{60}{11} \text{ days} = 5 \frac{5}{11} \text{ days.}$$

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

Discuss about this problem : [Discuss in Forum](#)

8. 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.

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

$$\Rightarrow x = 16 \text{ days.}$$

Hence, Tanya takes 16 days to complete the work.

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

Discuss about this problem : [Discuss in Forum](#)

9. A train 125 m long passes a man, running at 5 km/hr in the same direction in which the train is going, in 10 seconds. The speed of the train is:

- ☐ A. 45 km/hr ✖
- ☒ B. 50 km/hr ✔
- ☐ C. 54 km/hr ✖
- ☐ D. 55 km/hr ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$\text{Speed of the train relative to man} = \left(\frac{125}{10} \right) \text{ m/sec}$$

$$= \left(\frac{25}{2} \right) \text{ m/sec.}$$

$$\checkmark (25, 18)$$

$$\therefore x - 5 = 45 \Rightarrow x = 50 \text{ km/hr.}$$

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

Discuss about this problem : [Discuss in Forum](#)

10. Two trains, each 100 m long, moving in opposite directions, cross each other in 8 seconds. If one is moving twice as fast the other, then the speed of the faster train is:

- ☒ A. 30 km/hr ✖
☐ B. 45 km/hr ✖
☐ C. 60 km/hr ✔
☐ D. 75 km/hr ✖

Your Answer: Option A

Correct Answer: Option C

Explanation:

Let the speed of the slower train be x m/sec.

Then, speed of the faster train = $2x$ m/sec.

Relative speed = $(x + 2x)$ m/sec = $3x$ m/sec.

$$\therefore \frac{(100 + 100)}{8} = 3x$$

$$\Rightarrow 24x = 200$$

$$\Rightarrow x = \frac{25}{3}$$

So, speed of the faster train = $\frac{50}{3}$ m/sec

$$= \left(\frac{50}{3} \times \frac{18}{5} \right) \text{ km/hr}$$

$$= 60 \text{ km/hr.}$$

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

Discuss about this problem : [Discuss in Forum](#)

11. A train travelling at a speed of 75 mph enters a tunnel $3\frac{1}{2}$ miles long. The train is $\frac{1}{4}$ mile long. How long does it take for the train to pass through the tunnel from the moment the front enters to the moment the rear emerges?

- ☐ A. 2.5 min ✖
☒ B. 3 min ✔
☐ C. 3.2 min ✖
☐ D. 3.5 min ✖

Your Answer: Option B

✓ Correct Answer: Option B

$$= \frac{15}{4} \text{ miles.}$$

$$\begin{aligned} \therefore \text{Time taken} &= \left(\frac{15}{4 \times 75} \right) \text{ hrs} \\ &= \frac{1}{20} \text{ hrs} \\ &= \left(\frac{1}{20} \times 60 \right) \text{ min.} \\ &= 3 \text{ min.} \end{aligned}$$

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

Discuss about this problem : [Discuss in Forum](#)

12. A man takes twice as long to row a distance against the stream as to row the same distance in favour of the stream. The ratio of the speed of the boat (in still water) and the stream is:

- ☐ A. 2 : 1 ✖
- ☒ B. 3 : 1 ✔
- ☐ C. 3 : 2 ✖
- ☐ D. 4 : 3 ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

Let man's rate upstream be x kmph.

Then, his rate downstream = $2x$ kmph.

$$\begin{aligned} \therefore (\text{Speed in still water}) : (\text{Speed of stream}) &= \left(\frac{2x + x}{2} \right) : \left(\frac{2x - x}{2} \right) \\ &= \frac{3x}{2} : \frac{x}{2} \\ &= 3 : 1. \end{aligned}$$

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

Discuss about this problem : [Discuss in Forum](#)

13. A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest?

- ☐ A. 3% ✖
- ☐ B. 4% ✖
- ☐ C. 5% ✖
- ☒ D. 6% ✔
- ☐ E. None of these ✖

Your Answer: Option D

Correct Answer: Option D

$$\left(12500 \times 4 \right) \%$$

Video Explanation: <https://youtu.be/SIcQu1H0mOk>

Learn more problems on : [Simple Interest](#)

Discuss about this problem : [Discuss in Forum](#)

14. At what rate of compound interest per annum will a sum of Rs. 1200 become Rs. 1348.32 in 2 years?

- ☒ A. 6% ✓
☐ B. 6.5% ✗
☐ C. 7% ✗
☐ D. 7.5% ✗

Your Answer: Option A

Correct Answer: Option A

Explanation:

Let the rate be R% p.a.

$$\text{Then, } 1200 \times \left(1 + \frac{R}{100} \right)^2 = 1348.32$$

$$\Rightarrow \left(1 + \frac{R}{100} \right)^2 = \frac{134832}{120000} = \frac{11236}{10000}$$

$$\therefore \left(1 + \frac{R}{100} \right)^2 = \left(\frac{106}{100} \right)^2$$

$$\Rightarrow 1 + \frac{R}{100} = \frac{106}{100}$$

$$\Rightarrow R = 6\%$$

Learn more problems on : [Compound Interest](#)

Discuss about this problem : [Discuss in Forum](#)

Direction (for Q.No. 15):

Each of these questions is followed by three statements. You have to study the question and all the three statements given to decide whether any information provided in the statement(s) is redundant and can be dispensed with while answering the given question.

15. What is the cost painting the two adjacent walls of a hall at Rs. 5 per m² which has no windows or doors?

- I. The area of the hall is 24 sq. m.
 II. The breadth, length and height of the hall are in the ratio of 4 : 6 : 5 respectively.
 III. Area of one wall is 30 sq. m.

- ☒ A. I only ✗
☐ B. II only ✗
☐ C. III only ✓
☒ D. Either I or III ✗

Explanation:

From II, let $l = 4x$, $b = 6x$ and $h = 5x$.

Then, area of the hall = $(24x^2) \text{ m}^2$.

From I. Area of the hall = 24 m^2 .

From II and I, we get $24x^2 = 24 \Leftrightarrow x = 1$.

$\therefore l = 4 \text{ m}$, $b = 6$ and $h = 5 \text{ m}$.

Thus, area of two adjacent walls = $[(l \times h) + (b \times h)] \text{ m}^2$ can be found out and so the cost of painting two adjacent walls may be found out.

Thus, III is redundant.

\therefore Correct answer is (C).

Learn more problems on : [Area](#)

Discuss about this problem : [Discuss in Forum](#)

Direction (for Q.No. 16):

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.

16. What is the height of a circular cone?

I. The area of that cone is equal to the area of a rectangle whose length is 33 cm.

II. The area of the base of that cone is 154 sq. cm.

- ☐ 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 D

Correct Answer: Option D

Explanation:

II gives the value of r .

∴ Correct answer is (D).

Learn more problems on : [Volume and Surface Area](#)

Discuss about this problem : [Discuss in Forum](#)

17. At what time between 5.30 and 6 will the hands of a clock be at right angles?

- ☐ A. $43\frac{5}{11}$ min. past 5 ✖
- ☐ B. $43\frac{7}{11}$ min. past 5 ✔
- ☒ C. 40 min. past 5 ✖
- ☐ D. 45 min. past 5 ✖

Your Answer: Option C

Correct Answer: Option B

Explanation:

At 5 o'clock, the hands are 25 min. spaces apart.

To be at right angles and that too between 5.30 and 6, the minute hand has to gain $(25 + 15) = 40$ min. spaces.

55 min. spaces are gained in 60 min.

40 min. spaces are gained in $\left(\frac{60}{55} \times 40\right)_{\text{min}} = 43\frac{7}{11}$ min.

∴ Required time = $43\frac{7}{11}$ min. past 5.

Learn more problems on : [Clock](#)

Discuss about this problem : [Discuss in Forum](#)

18. Which is better investment: 11% stock at 143 or $9\frac{3}{4}\%$ stock at 117?

- ☒ A. 11% stock at 143 ✖
- ☐ B. $9\frac{3}{4}\%$ stock at 117 ✔
- ☐ C. Both are equally good ✖
- ☐ D. Cannot be compared, as the total amount of investment is not given. ✖

Your Answer: Option A

Correct Answer: Option B

Explanation:

Let investment in each case be Rs. (143×117) .

Income in 1st case = Rs. $\left(\frac{11}{143} \times 143 \times 117\right) = \text{Rs. } 1287$.

Learn more problems on : [Stocks and Shares](#)

Discuss about this problem : [Discuss in Forum](#)

19. The banker's gain on a bill due 1 year hence at 12% per annum is Rs. 6. The true discount is:

- ☐ A.Rs. 72 ✖
- ☐ B.Rs. 36 ✖
- ☐ C.Rs. 54 ✖
- ☒ D.Rs. 50 ✔

Your Answer: Option D

Correct Answer: Option D

Explanation:

$$\text{T.D.} = \frac{\text{B.G.} \times 100}{\text{R} \times \text{T}} = \text{Rs.} \left(\frac{6 \times 100}{12 \times 1} \right) = \text{Rs. 50.}$$

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

Discuss about this problem : [Discuss in Forum](#)

Direction (for Q.No. 20):

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

20. 25, 36, 49, 81, 121, 169, 225

- ☒ A.36 ✔
- ☐ B.49 ✖
- ☐ C.121 ✖
- ☐ D.169 ✖

Your Answer: Option A

Correct Answer: Option A

Explanation:

The numbers are squares of odd natural numbers, starting from 5 up to 15.

So, 36 is wrong.

Learn more problems on : [Odd Man Out and Series](#)

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