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Online Aptitude Test :: Aptitude Test - Random

Marks : 15/20

Total number of questions	:	20
Number of answered questions	:	18
Number of unanswered questions	:	2

Test Review : View answers and explanation for this test.

Direction (for Q.No. 1):

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.

1. What is the difference between the present ages of Ayush and Deepak?
   I. The ratio between Ayush's present age and his age after 8 years 4 : 5.
   II. The ratio between the present ages of Ayush and Deepak is 4 : 3.
   III. The ratio between Deepak's present age and his age four years ago is 6 : 5.

   ☑ A. Any two of I, II and III ✅
   ☐ B. I or III only ❌
   ∨   Any one of the three ❌

Explanation:

Clearly, any two of the given statements will give the answer and in each case, the third is redundant.

Learn more problems on : Problems on Ages

Discuss about this problem : Discuss in Forum

2. A and B started a business in partnership investing Rs. 20,000 and Rs. 15,000 respectively. After six months, C joined them with Rs. 20,000. What will be B's share in total profit of Rs. 25,000 earned at the end of 2 years from the starting of the business?
   A.Rs. 7500 ✅
   B.Rs. 9000 ✖
   C.Rs. 9500 ✖
   D.Rs. 10,000 ✖

Your Answer: Option A

Correct Answer: Option A

Explanation:

A : B : C = (20,000 x 24) : (15,000 x 24) : (20,000 x 18) = 4 : 3 : 3.

$\therefore$ B's share = Rs. $\left(25000 \times \dfrac{3}{10} \right)$ = Rs. 7,500.

Learn more problems on : Partnership

Discuss about this problem : Discuss in Forum

3. 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.

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

Learn more problems on : Boats and Streams

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☑ C.7
☐ D.49 ✖

Your Answer: Option C

Correct Answer: Option C

Explanation:

Let the required number days be x.

Less spiders, More days (Indirect Proportion)

Less webs, Less days (Direct Proportion)

$$\left.\begin{array}{l}\text{Spiders} 1:7 \\ \text{Webs } 7:1\end{array}\right\} :: 7 : x$$

$\therefore$ 1 x 7 x x = 7 x 1 x 7

$\Rightarrow x = 7$.

Learn more problems on : Chain Rule

Discuss about this problem : Discuss in Forum

5. A flagstaff 17.5 m high casts a shadow of length 40.25 m. The height of the building, which casts a shadow of length 28.75 m under similar conditions will be:
☐ A. 10 m ✖
☑ B. 12.5 m ✅
☐ C. 17.5 m ✖
☐ D. 21.25 m ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

Let the height of the building x metres.

Less lengthy shadow, Less in the height (Direct Proportion)

$\therefore$ 40.25 : 28.75 :: 17.5 : x $\Leftrightarrow$ 40.25 x x = 28.75 x 17.5

$$x = \frac{28.75 \times 17.5}{40.25}$$

$\Rightarrow x = 12.5$

Learn more problems on : Chain Rule

Discuss about this problem : Discuss in Forum

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Correct Answer: Option C

Explanation:

$$\text{Speed} = \left(45 \times \frac{5}{18}\right) \text{m/sec} = \left(\frac{25}{2}\right) \text{m/sec.}$$

Time = 30 sec.

Let the length of bridge be x metres.

Then, $\dfrac{130 + x}{30} = \dfrac{25}{2}$

$\Rightarrow 2(130 + x) = 750$

$\Rightarrow x = 245$ m.

Video Explanation: https://youtu.be/M_d8WufJWKc

Learn more problems on : Problems on Trains

Discuss about this problem : Discuss in Forum

7.A train overtakes two persons who are walking in the same direction in which the train is going, at the rate of 2 kmph and 4 kmph and passes them completely in 9 and 10 seconds respectively. The length of the train is:
- ☐ A.45 m ✖
- ☑ B.50 m ✅
- ☐ C.54 m ✖
- ☐ D.72 m ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

$$2 \text{ kmph} = \left(2 \times \frac{5}{18}\right) \text{m/sec} = \frac{5}{9} \text{m/sec.}$$

$$4 \text{ kmph} = \left(4 \times \frac{5}{18}\right) \text{m/sec} = \frac{10}{9} \text{m/sec.}$$

Let the length of the train be x metres and its speed by y m/sec.

Then, $\left(\dfrac{x}{y - \frac{5}{9}}\right) = 9$ and $\left(\dfrac{x}{y - \frac{10}{9}}\right) = 10.$

$\therefore$ $9y - 5 = x$ and $10(9y - 10) = 9x$

$\Rightarrow 9y - x = 5$ and $90y - 9x = 100.$

On solving, we get: $x = 50.$

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8. By investing Rs. 1620 in 8% stock, Michael earns Rs. 135. The stock is then quoted at:
   - [ ] A. Rs. 80 ✖
   - [✓] B. Rs. 96 ✔
   - [ ] C. Rs. 106 ✖
   - [ ] D. Rs. 108 ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

To earn Rs. 135, investment = Rs. 1620.

To earn Rs. 8, investment = Rs. $\left(\dfrac{1620}{135} \times 8\right)$ = Rs. 96.

∴ Market value of Rs. 100 stock = Rs. 96.

Learn more problems on : Stocks and Shares

Discuss about this problem : Discuss in Forum

9. A 6% stock yields 8%. The market value of the stock is:
   - [ ] A. Rs. 48 ✖
   - [✓] B. Rs. 75 ✔
   - [ ] C. Rs. 96 ✖
   - [ ] D. Rs. 133.33 ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

For an income of Rs. 8, investment = Rs. 100.

For an income of Rs. 6, investment = Rs. $\left(\dfrac{100}{8} \times 6\right)$ = Rs. 75.

∴ Market value of Rs. 100 stock = Rs. 75.

Learn more problems on : Stocks and Shares

Discuss about this problem : Discuss in Forum

10. A man buys Rs. 20 shares paying 9% dividend. The man wants to have an interest of 12% on his money. The market value of each share is:
   - [ ] A. Rs. 12 ✖
   - [✓] B. Rs. 15 ✔
   - [ ] C. Rs. 18 ✖
   - [ ] D. Rs. 21 ✖

Your Answer: Option B

$$\left(\right)$$

Rs. 12 is an income on Rs. 100.

∴ Rs. $\dfrac{9}{5}$ is an income on Rs. $\left(\dfrac{100}{12} \times \dfrac{9}{5} \right)$ = Rs. 15.

Learn more problems on : Stocks and Shares

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11. How many kilogram of sugar costing Rs. 9 per kg must be mixed with 27 kg of sugar costing Rs. 7 per kg so that there may be a gain of 10% by selling the mixture at Rs. 9.24 per kg?
    - ☐ A. 36 kg ✖
    - ☐ B. 42 kg ✖
    - ☐ C. 54 kg ✖
    - ☑ D. 63 kg ✅

Your Answer: Option D

Correct Answer: Option D

Explanation:

S.P. of 1 kg of mixture = Rs. 9.24, Gain 10%.

∴ C.P. of 1 kg of mixture = Rs. $\left(\dfrac{100}{110} \times 9.24 \right)$ = Rs. 8.40

By the rule of allilation, we have:

C.P. of 1 kg sugar of 1st kind	Cost of 1 kg sugar of 2nd kind	
Rs. 9	Mean Price	Rs. 7
1.40	Rs. 8.40	0.60

∴ Ratio of quantities of 1st and 2nd kind = 14 : 6 = 7 : 3.

Let x kg of sugar of 1st be mixed with 27 kg of 2nd kind.

Then, 7 : 3 = x : 27

⇒ $x = \left(\dfrac{7 \times 27}{3} \right)$ = 63 kg.

Learn more problems on : Alligation or Mixture

Discuss about this problem : Discuss in Forum

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12. Albert invested an amount of Rs. 8000 in a fixed deposit scheme for 2 years at compound interest rate 5 p.c.p.a. How much amount will Albert get on maturity of the fixed deposit?
    - ☐ A. Rs. 8600 ✖
    - ☐ B. Rs. 8620 ✖

Explanation:

$$\text{Amount} = \text{Rs.}\left[8000 \times \left(1 + \frac{5}{100}\right)2\right]$$
$$= \text{Rs.}\left[8000 \times \frac{21}{20} \times \frac{21}{20}\right]$$
$$= \text{Rs. } 8820.$$

Learn more problems on : Compound Interest

Discuss about this problem : Discuss in Forum

13. In a certain store, the profit is 320% of the cost. If the cost increases by 25% but the selling price remains constant, approximately what percentage of the selling price is the profit?
- ☐ A. 30% ✖
- ☑ B. 70% ✔
- ☐ C. 100% ✖
- ☐ D. 250% ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

Let C.P. = Rs. 100. Then, Profit = Rs. 320, S.P. = Rs. 420.

New C.P. = 125% of Rs. 100 = Rs. 125

New S.P. = Rs. 420.

Profit = Rs. (420 - 125) = Rs. 295.

$$\therefore \text{ Required percentage} = \left(\frac{295}{420} \times 100\right)_{\%} = \frac{1475}{21}\% = 70\% \text{ (approximately)}.$$

Video Explanation: https://youtu.be/bQA8SB8ycbw

Learn more problems on : Profit and Loss

Discuss about this problem : Discuss in Forum

14. How many times in a day, the hands of a clock are straight?
- ☑ A. 22 ✖
- ☐ B. 24 ✖
- ☐ C. 44 ✔
- ☐ D. 48 ✖

Your Answer: Option A

Correct Answer: Option C

∨ Explanation:

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15. 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

16. The certain worth of a certain sum due sometime hence is Rs. 1600 and the true discount is Rs. 160. The banker's gain is:

☐ A. Rs. 20 ✖

☐ B. Rs. 24 ✖

☐ C. Rs. 16 ✔

☐ D. Rs. 12 ✖

Your Answer: Option (Not Answered)

Correct Answer: Option C

Explanation:

$\text{B.G.} = \frac{(\text{T.D.})^2}{\text{P.W.}} = \text{Rs.}\left(\frac{160 \times 160}{1600}\right) = \text{Rs. } 16.$

Learn more problems on : Banker's Discount

17. Three unbiased coins are tossed. What is the probability of getting at most two heads?

☐ D.$\frac{7}{8}$ ✅

Your Answer: Option (Not Answered)

Correct Answer: Option D

Explanation:

Here S = {TTT, TTH, THT, HTT, THH, HTH, HHT, HHH}

Let E = event of getting at most two heads.

Then E = {TTT, TTH, THT, HTT, THH, HTH, HHT}.

∴ $P(E) = \frac{n(E)}{n(S)} = \frac{7}{8}$.

Learn more problems on : [Probability](#)

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

18. In a lottery, there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

☐ A.$\frac{1}{10}$ ✖

☐ B.$\frac{2}{5}$ ✖

☑ C.$\frac{2}{7}$ ✅

☐ D.$\frac{5}{7}$ ✖

Your Answer: Option C

Correct Answer: Option C

Explanation:

P (getting a prize) = $\frac{10}{(10 + 25)} = \frac{10}{35} = \frac{2}{7}$.

Learn more problems on : [Probability](#)

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

Direction (for Q.No. 19):
Find out the wrong number in the given sequence of numbers.
19.   46080, 3840, 384, 48, 24, 2, 1

☐ A.1 ✖
☐ B.2 ✖
☑ C.24 ✅
☐ D.384 ✖

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So, 24 is wrong, it should be 8 (48/6 = 8).

Learn more problems on : Odd Man Out and Series

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20.A metallic sheet is of rectangular shape with dimensions 48 m x 36 m. From each of its corners, a square is cut off so as to make an open box. If the length of the square is 8 m, the volume of the box (in m^3) is:
- A.4830 ✖
- ✅ B.5120 ✅
- C.6420 ✖
- D.8960 ✖

Your Answer: Option B

Correct Answer: Option B

Explanation:

Clearly, l = (48 - 16)m = 32 m,

b = (36 -16)m = 20 m,

h = 8 m.

∴ Volume of the box = (32 x 20 x 8) m^3 = 5120 m^3.

Learn more problems on : Volume and Surface Area

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*** END OF THE TEST ***

Feedback

Quality of the Test	:	-- Select -- ⌄
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Comments:

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Interview Questions and Answers

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