

Deloitte Aptitude & Reasoning

1. A trader marks the price at 8 percent higher than the original price. Due to the hike in demand, he again increases the price by 10 percent. How much percent profit he gets.

- A. 17.8%
- B. 18.8%
- C. 19.8%
- D. 20.8%

Answer – B.18.8%

Explanation:

Suppose initial price = 100

Then final price = $100 \times (108/100) \times (110/100) = 118.8$

Therefore, Profit Percentage = 18.8%

2. After decreasing 24% in the price of an article costs Rs.912. Find the actual cost of an article?

- A. 1400
- B. 1300
- C. 1200
- D. 1100

Answer – C. 1200

Explanation:

$CP \times (76/100) = 912$

$CP = 12 \times 100$

Hence, the Cost Price is 1200

3. M and N's salaries together amount to Rs. 2,000. M spends 95% of his salary and N spends 85% of his. If now their savings are the same, what is N's salary?

- A. Rs.500
- B. Rs.750
- C. Rs.1250

D. Rs.1500

Answer – D. Rs.1500

Explanation:

According to the given information

$$(5/100) M = (15/100) N$$

$$M = 3N$$

$$M + N = 2000$$

$$4N = 2000 \Rightarrow N = 500$$

$$M = 3(500) = 1500.$$

4. If the price of an article is increased by 15%, then by how much the household should decrease their consumption so as to keep his expenditure same.

A. $11\frac{1}{23}\%$

B. $11\frac{2}{23}\%$

C. $13\frac{1}{23}\%$

D. $13\frac{2}{23}\%$

Answer – C. $13\frac{1}{23}\%$

Explanation:

By Analyzing the given information

$$\text{Decrease in expenditure} = (15/115) * 100 = 13\frac{1}{23} \%$$

5. In a horse racing, there are three horses, P, Q, and R. The Payoffs at P is 3: 7, at Q, is 4: 9, at R, is 5:11. Salman bets Rs. 693 on a horse which would fetch the maximum amount. Luckily his horse has won. Then what is the total amount won by him?

A. Rs.990

B. Rs.1001

C. Rs.1008

D. Rs.1011

Answer – C. Rs.1008

Explanation:

$$\text{If Salman bets on horse P: } 693 * \frac{3}{7} = 297$$

If he bets on horse Q: $693 \times \frac{4}{9} = 308$

If he bets on horse R: $693 \times \frac{5}{11} = 315$

Hence, Salman bets on horse R and he wins 315

Total = $693 + 315 = 1008$

6. In a certain code language 'over and above' is written as 'da pa ta' and 'old and beautiful' is written as 'sa na pa'. How is 'over' written in that code 'language'?

A. da

B. ta

C. na

D. da or ta

Answer: A

Explanation:

Exp Over and above=da pa ta...(i) Old and beautiful=sa na pa ...(ii) From(i) and (ii) and =pa(iii)

Using (iii) in (ii) over=da or ta

7. Two pipes M and N can fill a tank in 8 minutes and 12 minutes respectively. If both the pipes are opened simultaneously, after what time should N be closed so that the tank is full in 6 minutes?

A. 1 min

B. 2 min

C. 3 min

D. 4 min

Answer – C. 3 min

Explanation:

Let us assume that after x minutes pipe N is closed

$$\left(\frac{1}{8} + \frac{1}{12}\right) \times x + \left(\frac{1}{8}\right) \times (6 - x) = 1$$

Therefore, $x = 3$ minutes

8. Two taps can separately fill the tank in 10 min and 15 min respectively. They fill the tank in 12 minutes when a third pipe which empties the tank is also opened. What is the time taken by the third pipe to empty the whole tank?

A. 12 minutes

B. 14 minutes

C. 15 minutes

D. 20 minutes

Answer – A. 12 minutes

Explanation:

$$1/10 + 1/15 - 1/x = 1/12$$

After solving the above equation we will get $x = 12$

9. Three pipes, P, Q, and R are opened to fill a tank such that P and Q can fill a tank alone in 36 min. and 45 min. respectively and R can empty it in 30 min. After 6 minutes the emptying pipe is closed. In how many minutes the tank will be full in this way?

A. 18 mins

B. 20 mins

C. 24 mins

D. 25 mins

Answer – C. 24 mins

Explanation:

Let us assume the tank full in x minutes

Then P and Q opened for x minutes and R for 6 minutes.

$$(1/36 + 1/45)*x - (1/30)*6 = 1$$

$$(1/20)*x = 6/5$$

By solving $x = 24$

Therefore, the tank will be full in 24 mins

10. Pipes M and N can fill a cistern in 15 hours together. But if these pipes operate separately M takes 40 hours less than N to fill the tank. In how many hours the pipe M will fill the cistern working alone?

A. 15 hours

B. 20 hours

C. 40 hours

D. 60 hours

Answer – B. 20 hours

Explanation:

Let M takes x hours

Then, N = (x+40) hours

$$1/x + 1/(x+40) = 1/15$$

Therefore, x = 20

Hence the pipe M will fill the cistern in 20 hours

11. Dr. Gopal walks at $\frac{4}{5}$ of his normal speed and takes 60 mins more than the usual time. What will be the new time taken by Dr. Gopal?

A. 220 mins

B. 235 mins

C. 260 mins

D. 300 mins

Answer – D. 300 mins

Explanation:

According to the given information

$\frac{4}{5}$ of speed = $\frac{5}{4}$ of the original time

$\frac{5}{4}$ of original time = original time + 60 mins

$\frac{1}{4}$ of original time = 60 mins

Hence, original time = $60 \times 4 = 240$ mins = $240 + 60 = 300$ mins

12. A Lion starts chasing a Deer. It takes 4 hours to catch the Deer. If the speed of the Lion is 40 kmph.

What is the speed of Deer?

A. 20 kmph

B. 50 kmph

C. 40 kmph

D. 70 kmph

Answer – A. 20 kmph

Explanation:

Let us assume that

Deer Speed = x kmph

Then, $4 = 4 \cdot x / (40 - x)$

$x = 20$ kmph

13. Choose the word which is different from the rest.

A. Sweep

B. Wipe

C. Wash

D. Stain

Answer – D. Stain

Explanation:

All except Stain are terms related to cleaning.

14. Choose the word which is different from the rest.

A. Rat

B. Mongoose

C. Snake

D. Frog

Answer – C. Snake

Explanation:

Snake only poisonous animal among them

15. In a class of 45 students, Aravind's rank from the top is 16th. Basha is 6 ranks below Aravind. What is

Basha's rank from the bottom?

A. 23rd

B. 24th

C. 30th

D. 32nd

Answer – B. 24th

Explanation:

According to the given data

Basha's rank from bottom = $45 - (16 + 6) + 1 = 24\text{th}$

16. In a row of children, Darshini is 7th from the left and Vikas is 9th from the right. When they interchange their places among themselves, Darshini becomes 18th From the left. Then what will be Vikas present position from the right?

A. 20th

B. 18th

C. 17th

D. 15th

Answer – A. 20th

Explanation:

Present position of Vikas = $(18 - 7) + 9 = 20\text{th}$

17. In a certain code, PARADISE is written as APARIDES then in the same code how CLIPBOARDS is written?

A. LCIPOBRASD

B. LCPIOBSDRA

C. LCPIOABRDS

D. LCPIOBRASD

Answer – D. LCPIOBRASD

Explanation:

Each pair of a word are written in reverse order. PA = AP, RA = AR, DI = ID and SE = ES

Similarly, CL = LC, IP = PI, BO = OB, AR = RA, DS = SD

18. If CALM is written as XZON, YEAR may be written as

A. BVIZ

B. BVZJ

C. BVZI

D. BZVI

Answer – C. BVZI

Explanation:

The concept of Reverse EJOTY is followed.

Or we can also say that the sum of the letter & its respective coded letter is 27.

$Y+B=25+2=27$, $E+V=5+22=27$, and so on.

Hence code for YEAR is 'BVZI'.

19. Cup: Lip:: Bird: ?

A. Bush

B. Grass

C. Forest

D. Beak

Answer – D. Beak

Explanation:

Cup is used to drink something with the help of lips.

Similarly, birds collect grass with the help of beak to make her nest.

20. Country: President:: State: ?

A. Legislator

B. Minister

C. Governor

D. M.P

Answer – C. Governor

Explanation:

President is the nominal head of a Country

Similarly, Governor is the nominal head of a State

21. 3754: 5976:: 7563:?

A. 2367

B. 2857

C. 7074

D. 9785

Answer – D. 9785

Explanation:

The Relationship between 1st & 2nd group is $x : (x + 2222)$.

Hence, $7563 + 2222 = 9785$

22. The government launched two incentive schemes “Lucky Grahak Yojana and Digi-Dhan Vyapar Yojan

a for both consumers and merchants. Which of the following will be an impact of these two schemes?

A. For quick transaction

B. To promote the business at the global level

C. To incentivize digital transactions

D. To simplify the business process

Answer – C. To incentivize digital transactions

Explanation:

The aim of these schemes is to incentivize digital transactions so that electronic payments are adopted by all sections of the society, especially the poor and the middle class.

Directions:-

24. Statements: Some drums are posters. All posters are windows. Some windows are tablets. All tablets are books.

Conclusions: I. Some windows are drums.

II. Some books are posters.

III. Some tablets are drums

A. None follows

B. Only I follows

C. Only II follows

D. Only III follows

Answer: B

Explanation:

Some drums are posters. + All posters are windows = 1 + A = 1 = some drums are windows
conversion some windows are drums 1 follows. All posters are windows + Some windows
are tablets. = A + 1 = Hence no conclusion, neither ii nor iii

25. VERBAL ABILITY QUESTIONS on topics such as Synonyms, Antonyms, Tense, Adjectives, Articles, Homophones, Gerunds, Identify the Errors, Identify the Sentences, Plural Forms, Nouns, Prefix, Odd Words, Sentence Pattern, Suffix and other main stuff. So, after checking them all, and practicing them, you can surely do well