

**ERICSSON Aptitude Test**

1.  $|4 - 8(3 - 12)| - |5 - 11| = ?$

A. 70

B. 76

C. 85

D. 55

Explanation:

According to order of operations, inner brackets first.

Hence,

$$\Rightarrow |4 - 8(3 - 12)| - |5 - 11| = |4 - 8 \cdot (-9)| - |5 - 11|.$$

According to order of operations, multiplication within absolute value signs (which may be considered as brackets when it comes to order of operations) next.

Hence,

$$= |4 + 72| - |5 - 11|$$

$$= |76| - |-6|$$

$$= 76 - 6 = 70$$

2. Evaluate:  $11 + \sqrt{-4 + 6\sqrt{4} \cdot 3}$

A. 26

B. 13

C. 11

D. 12

Explanation:

According to order of operations, inner brackets first where  $6\sqrt{4} \cdot 3$  is first calculated since it has a multiplication and a division.

$$\text{i.e. } 6\sqrt{4} \cdot 3 = 24\sqrt{4} = 8.$$

Hence,

$$\Rightarrow 11 + \sqrt{-4 + 6\sqrt{4} \cdot 3} = 11 + \sqrt{-4 + 8}.$$

$$\Rightarrow 11 + \sqrt{4} = 11 + 2 = 13.$$

3. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is: -

A.  $\frac{1}{4}$ B.  $\frac{1}{10}$ C.  $\frac{7}{15}$ D.  $\frac{8}{15}$ 

Explanation:

A's 1 day's work =  $\frac{1}{15}$ .

B's 1 day's work =  $1/20$ .

(A + B)'s 1 day's work =  $(1/15 + 1/20) = 7/60$ .

(A + B)'s 4 day's work =  $(7/60) \times 4 = 7/15$ .

Therefore, Remaining work =  $(1 - 7/15) = 8/15$ .

4. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

- A. 12 days
- B. 15 days
- C. 16 days
- D. 18 days

Explanation:

A's 2 day's work =  $(1/20) \times 2 = 1/10$ .

(A + B + C)'s 1 day's work =  $1/20 + 1/30 + 1/60 = 6/60 = 1/10$ .

Work done in 3 days =  $1/10 + 1/10 = 1/5$ .

Now,  $1/5$  work is done in 3 days.

Whole work will be done in  $(3 \times 5) = 15$  days.

5. A student was asked to divide a number by 6 and add 12 to the quotient. He, however first added 12 to the number and then divided it by 6, getting 112 as the answer.

The correct answer should have been: -

- A. 114
- B. 118
- C. 122
- D. 124

Explanation:

Let the number be  $x$ , then operations undertaken by the student:

$\Rightarrow (x+12)/6 = 112$ .

$\Rightarrow x=660$

Correct answer:

$\Rightarrow 660/6 + 12$ .

$\Rightarrow 122$ .

6. A man takes 5 hours 45 min in walking to a certain place and riding back. He would have gained 2 hours by riding both ways. The time he would take to walk both ways is

- A. 11 hrs.
- B. 8 hrs. 5 min

C. 7 hr. 45 min

D. 9 hr. 20 min

Explanation:

Given that time taken for riding both ways will be 2 hours lesser than the time needed for walking one way and riding back.

Thus, Time needed for riding one way = time needed for walking one way - 2 hours.

Given that time taken in walking one way and riding back = 5 hours 45 min

Hence, the time he would take to walk both ways = 5 hours 45 min + 2 hours = 7 hours 45 min.

7. Two trains start from A and B respectively and travel towards each other at a speed of 60 km/hr. and 75 km/hr. respectively. By the time they meet, the second train has traveled 70 km more than the first. The distance between A and B is:

A. 600 km

B. 630 km

C. 745 km

D. 820 km

Explanation:

At the time of meeting, let the distance traveled by the first train be  $x$  km.

Then, distance covered by the second train is  $(x + 70)$  km.

$$\Rightarrow x/60 = (x + 70)/75.$$

$$\Rightarrow 75x = 60x + 60 \cdot 70.$$

$$\Rightarrow 15x = 4200$$

$$\Rightarrow x = 280 \text{ km.}$$

So, distance between A and B =  $(x + x + 70)$

$$= 280 + 280 + 70 = 630.$$

8. In a certain school, 20% of students are below 8 years of age. The number of students above 8 years of age is  $2/3$  of the number of students of 8 years of age which is 48. What is the total number of students in the school?

A. 72

B. 80

C. 100

D. 120

Explanation:

Let the number of students be  $x$ . Then,

Number of students above 8 years of age =  $(100 - 20) \%$  of  $x = 80\%$  of  $x$ .

$$\Rightarrow 80\% \text{ of } x = 48 + 2/3 \text{ of } 48.$$

$$\Rightarrow (80/100) x = 80.$$

$$\Rightarrow x = 100.$$

9. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

- A. 15
- B. 16
- C. 18
- D. 25

Explanation:

Let the cost price of 1 article be z.

So, the cost price of 20 article =  $20z$  ----- (1)

Selling Price of 20 articles =  $20z + 25\%$  of  $20z = 25z$

=> Selling Price of 1 article =  $25z/20 = (5/4) * z$

=> Selling Price of x articles =  $(5/4) * z * x$  ----- (2)

Given that Selling Price (S.P.) of x articles = Cost Price (C.P.) of 20 articles.

=>  $(5/4) * z * x = 20z$ .

=>  $x = 16$ .

10. On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:

- A. Rs 45
- B. Rs 50
- C. Rs 55
- D. Rs 60

Explanation:

Let the cost price (C.P.) of one ball be x Rs.

So, the cost price of 17 balls =  $17x$  and cost price of 5 balls =  $5x$

Loss while selling 17 balls =  $(17x - 720)$

Given that there is a loss equivalent to C.P. of 5 balls while selling 17 balls at 720 Rs.

=>  $5x = (17x - 720)$

=>  $x = 60$  Rs.

### ERICSSON Logical Reasoning Test

11. Puzzle: -

In the middle of a round pool lies a beautiful water lily. The water lily doubles in size every day. After exactly 20 days, the lily will cover the complete pool. After how many days will the water lily cover half of the pool?

- A. 19 days
- B. 10 days
- C. 15 days

D. 5 days

Explanation:

Because the water lily doubles its size every day and the complete pool is covered after 20 days, half of the pool will be covered one day before that, after 19 days.

Conclusion: after 19 days, the water lily will cover half of the pool.

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In the middle of a round pool lies a beautiful water lily. The water lily doubles in size every day. After exactly 20 days, the lily will cover the complete pool. After how many days will the water lily cover half of the pool?

A. 19 days

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C. 15 days

D. 5 days

Explanation:

Because the water lily doubles its size every day and the complete pool is covered after 20 days, half of the pool will be covered one day before that, after 19 days.

Conclusion: after 19 days, the water lily will cover half of the pool.

13. Four people need to cross a rickety bridge at night. Unfortunately, they have only one torch and the bridge is too dangerous to cross without one. The bridge is only strong enough to support two people at a time. Not all people take the same time to cross the bridge. Times for each person: 1 min, 2 mins, 7 mins and 10 mins. What is the shortest time needed for all four of them to cross the bridge?

A. 10 mins

B. 15 mins

C. 17 mins

D. 20 mins

Explanation:

It is 17 mins.

1 and 2 go first, then 1 comes back. Then 7 and 10 go and 2 comes back. Then 1 and 2 go again, it makes a total of 17 minutes.

14. If in a cricket one-day match, there were no wide balls, no wide's, no extras and no overthrows. What is the maximum number of runs that a batsman can score in an ideal case scenario?

A. 1023

B. 1653

C. 1600

D. 1440

Explanation:

For an ideal case, the batsman will hit a six on each ball.

But if he hits six on the last ball of the over, the strike will change in the next over.

Thus, the best he can do in the last ball is run 3 runs so that he retains the strike even in the next over.

Thus the total runs that he can score in each over:

$$6 * 5 + 3 = 33.$$

But this will have to go like it only till the 49th over. In the last over, he can hit a six in the last ball as well as that will be the last ball of the match.

Thus runs for the last over will be  $6 * 6 = 36$ .

Hence, the maximum runs =  $33 * 49 + 36 = 1653$ .

15. In front of you, there are 9 coins. They all look absolutely identical, but one of the coins is fake. However, you know that the fake coin is lighter than the rest, and in front of you is a balance scale.

What is the least number of weightings you can use to find the counterfeit coin?

- A. 0
- B. 2
- C. 1
- D. 3

Explanation:

The answer is 2.

First, divide the coins into 3 equal piles. Place a pile on each side of the scale, leaving the remaining pile of 3 coins off the scale. If the scale does not tip, you know that the 6 coins on the scale are legitimate, and the counterfeit is in the pile in front of you.

If the scale does tip, you know the counterfeit is in the pile on the side of the scale that raised up. Either way, put the 6 legitimate coins aside. Having only 3 coins left, put a coin on each side of the scale, leaving the third in front of you.

The same process of elimination will find the counterfeit coin.

16. If in a certain language, SHIFT is coded as RFFBO, which word would be coded as LKUMB?

- A. MMXQG
- B. MLVNC
- C. KJVLA
- D. MJVLC

Answer: A.

17. In a certain code, GOODNESS is coded as HNPCODTR. How is GREATNESS coded in that code?

- A. HQFZUODTR
- B. HQFZUMFRT



C. HQFZSMFRT

D. FSDBSODTR

Answer: B.

18. In a certain code language, COMPUTER is written as RFUVQNPC. How is MEDICINE written in the same code?

A. MFEJDJOE

B. EOJDEJFM

C. EOJDJEFM

D. MFEDJJOE

Answer: C.

19. 5: 36: 6: ?

A. 46

B. 49

C. 25

D. 50

Answer: B.

20. 3265: 4376: : 4673 : ?

A. 2154

B. 3562

C. 5487

D. 5784

Answer: D.

### **ERICSSON Verbal Ability Test**

21. Antonym: -

DEAR

A. fear

B. lovely

C. Priceless

D. Cheap

Answer: D.

22. Antonym: -

COMMISSIONED



- A. Started
  - B. Closed
  - C. Finished
  - D. Terminated
- Answer: D.

23. Synonym: -  
CORPULENT

- A. Lean
  - B. Gaunt
  - C. Emaciated
  - D. Obese
- Answer: D.

24. Synonym: -  
AUGUST

- A. Common
  - B. Ridiculous
  - C. Dignified
  - D. Petty
- Answer: C.

25. Synonym: -  
CANNY

- A. Obstinate
  - B. Handsome
  - C. Clever
  - D. Stout
- Answer: C.

26. One Word Substitution for: -

An assembly of listeners

- A. Crowd
  - B. Audience
  - C. Public
  - D. Mob
- Answer: B.



27. One Word Substitution for: -

One who goes on a journey to a holy place

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- A. Tourist
- B. Follower
- C. Devotee
- D. Pilgrim

Answer: D.

28. A plane was forced to make an emergency landing after it was hit by a \_\_\_\_\_ of birds

- A. group
- B. flock
- C. assembly
- D. swarm

Answer: B.

29. I do not like to intrude \_\_\_\_\_ your privacy

- A. to
- B. into
- C. in
- D. upon

Answer: D.

30. Select Correct Word: -

- A. Apreciation
- B. Appreciation
- C. Aprpreciation
- D. Appereciation

Answer: B.