

Amazon (Aptitude, Reasoning, Technical) Set - I



1. If the ratio of Rate of filling of two Pipes A and B is 3:2. If together they can fill a Tank $\frac{5}{6}$ th of Tank in 20 minutes. Then in how many does A alone can fill the Tank?

- A. 50 Minutes
- B. 40 Minutes
- C. 30 Minutes
- D. 20 Minutes

Answer – B. 40 Minutes

Explanation:

$\frac{5}{6}$ tank = 20 Min

Full tank = 24 Min

$\frac{1}{2}x + \frac{1}{3}x = \frac{1}{24}$

$x = 20$, A = $2x = 40$ Min

2. A car covers first 10 km with 40 km/hr next 10km with 60 km and next 10 km in 20 km/hr. What is the average speed of the car?

- A. $\frac{320}{11}$
- B. $\frac{330}{11}$
- C. $\frac{350}{11}$
- D. $\frac{360}{11}$

Answer – D. $\frac{360}{11}$

Explanation:

Average speed = $\frac{(3 \times 20 \times 40 \times 60)}{800 + 2400 + 1200} = \frac{360}{11}$

3. The efficiency of P is 25% more then Q and Q take 25 days to complete a piece of work. P started a work alone and then Q joined her 5 days before actual completion of the work. For how many days P worked alone?

- A. 9
- B. 10
- C. 11
- D. 12

Answer – C. 11

Explanation:

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Efficiency (P: Q) = 5: 4

Number of days(P: Q) = $4x : 5x = 4x : 25$

Therefore, Number of days required by P to finish the work alone = $4x = 4 \times 5 = 20$.

P and Q work together for last 5 days = $5 \times 9 = 45\%$

Efficiency of P = 5% and Q's efficiency = 4%

Therefore, No. of days taken by P to complete 55% work = $55/5 = 11$ days

4. A man borrows Rs 4000 at 8% compound interest for 3 years. At the end of each year, he paid Rs 500. How much amount should he pay at the end of the 3rd year to clear the debt?

- A. Rs 3465.2
- B. Rs 3485.2
- C. Rs 4345.4
- D. Rs 3915.6

Answer - D. Rs 3915.6

Explanation:

Amount after 1 yr = $4000[1 + 8/100] = 4320$

Paid 500, so P = $4320 - 500 = 3820$

Amount after 2nd yr = $3820[1 + 8/100] = 4125.6$

So P = $4125.6 - 500 = 3625.6$

Amount after 3rd yr = $3625.6[1 + 8/100] = 3915.6$

5. M and N are invested in a business. They earned some profit which they divided in the ratio of 2:3. If M invested Rs.30000, the amount invested by N is

- A. Rs.35,000
- B. Rs.40,000
- C. Rs.45,000
- D. Rs.64,000

Answer - C. Rs.45,000

Explanation:

30,000: N = 2:3

N = $90,000/2 = 45,000$

6. The parameter of a square is equal to the perimeter of a rectangle of length 16 cm and breadth 14 cm. Find the circumference of a semicircle whose diameter is equal to the side of the square. (Round off your answer to two decimal places)

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- A. 23.57 cm
- B. 77.14 cm
- C. 84.92 cm
- D. 94.94 cm

Answer - A. 23.57 cm

Explanation:

Let the side of the square be a cm.

Parameter of the rectangle = $2(16 + 14) = 60$ cm

Parameter of the square = 60 cm

i.e. $4a = 60$

$a = 15$

Diameter of the semicircle = 15 cm

Circumference of the semicircle

= $\frac{1}{2}(\pi)(15)$

= $\frac{1}{2}(\frac{22}{7})(15) = \frac{330}{14} = 23.57$ cm to two decimal places

7. A cube of side one meter length is cut into small cubes of side 10 cm each. How many such small cubes can be obtained?

- A. 10
- B. 100
- C. 1000
- D. 10000

Answer - C. 1000

Explanation:

Along one edge, the number of small cubes that can be cut

= $100/10 = 10$

Along each edge, 10 cubes can be cut.

Total number of small cubes that can be cut = $10 * 10 * 10 = 1000$

8. FLOOD is written as 63664, How WATER is written in that code?

- A. 51259
- B. 23456
- C. 23456
- D. 15678

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Answer – A. 51259

Explanation:

FLOOD => $6\ 3(1+2)\ 6(1+5)\ 6\ 4 = 63664$

WATER => $5(2+3)\ 1\ 2(2+0)\ 5\ 9(1+8) = 51259$

9. **LONDON** is written as **MNPBRK**, How **MOSCOW** is written in that code?

- A. NMUBTR
- B. NNUART
- C. MMBVTR
- D. NNAUTY

Answer – B. NNUART

Explanation:

$L(+1)O(-1)\ N(+2)D(-2)\ O(+3)N(-3)$

MN PB RK

Hence, $M(+1)O(-1)\ S(+2)C(-2)\ O(+3)W(-3)$

NN UA RT

10. If Subbu finds that it is seventeenth from the right and eighteenth from the left in a line facing north. How many persons should be added to the line such that there are 40 people in the line?

- A. 5
- B. 6
- C. 8
- D. 9

Answer – B. 6

Explanation:

$17 + \text{Subbu} + 16 + X = 40$

$X = 6$

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

- A. Rhea
- B. Trout
- C. Lamprey
- D. Salmon

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Answer - A. Rhea

Explanation:

All except Rhea are kinds of fishes.

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

- A. Circle
- B. Ellipse
- C. Sphere
- D. Cube

Answer - D. Cube

Explanation:

All except Cube are circular figures

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

- A. Iron
- B. Nickel
- C. Aluminum
- D. Cobalt

Answer - C. Aluminum

Explanation:

All except Aluminium all are magnetic materials.

14. Which of the following is the function of the database administration?

- A. Application checking
- B. Database access planning
- C. Computer applications management
- D. All of these

Answer - B. Database access planning

15. Pushing an element into stack already having five elements and stack size of 5, then stack becomes

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- A. Underflow
- B. User flow
- C. Overflow
- D. Crash

Answer - C. Overflow

16. Which of the following applications may use a stack?

- A. Parentheses balancing program
- B. Tracking of local variables at run time
- C. Compiler syntax analyzer
- D. All of the mentioned

Answer - D. All of the mentioned

17. With what data structure can a priority queue be implemented?

- A. Array
- B. List
- C. Heap
- D. All of the mentioned

Answer - D. All of the mentioned

18. Express 15 as a 6-bit signed binary number.

- A. 001111
- B. 001110
- C. 101111
- D. 101110

Answer - C. 101111

19. Which is the predefined method available in Java to convert decimal to binary numbers?

- A. Binary Integer
- B. Binary Value
- C. Binary Number
- D. Binary String

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Answer - D. Binary String

20. What is meant by physical size in a dynamic array?

- A. The size allocated to elements
- B. The size extended to add new elements
- C. The size of the underlying array at the back-end
- D. The size visible to users

Answer - C. The size of the underlying array at the back-end