

Aptitude Papers General Aptitude Questions Aptitude Questions Set IV

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1. Eight friends Harsha, Fakis, Balaji, Eswar, Dhinesh, Chandra, Geetha, and Ahmed are sitting in a circle facing the center. Balaji is sitting between Geetha and Dhinesh. Harsha is third to the left of Balaji and second to the right of Ahmed. Chandra is sitting between Ahmed and Geetha and Balaji and Eshwar are not sitting opposite to each other. Who is third to the left of Dhinesh? Answer: Fakis Chandra Explanation: Harsha Geetha Eswar Balaji Dhinesh
2. If every alternative letter starting from B of the English alphabet is written in small letter, rest all are written in capital letters, how the month September be written.
 - a. SeptEMbEr
 - b. SEpTeMBER
 - c. SeptembeR
 - d. SepteMber
 - e. None of the above:

Answer: (5).

Explanation: Since every alternative letter starting from B of the English alphabet is written in small letter, the letters written in small letter are b, d, f...

In the first two answers the letter E is written in both small & capital letters, so they are not the correct answers. But in third and fourth answers the letter is written in small letter instead capital letter, so they are not the answers.

3. The length of the side of a square is represented by $x + 2$. The length of the side of an equilateral triangle is $2x$. If the square and the equilateral triangle have equal perimeter, then the value of x is _____. Answer: $x = 4$ Explanation: Since the side of the square is $x + 2$, its perimeter = $4(x + 2) = 4x + 8$ Since the side of the equilateral triangle is $2x$, its perimeter = $3 * 2x = 6x$ Also, the perimeters of both are equal. That is, $4x + 8 = 6x$ that is, $2x = 8$ $x = 4$.
4. It takes Mr. Karthik y hours to complete typing a manuscript. After 2 hours, he was called away. What fractional part of the assignment was left incomplete? Answer: $(y - 2)/y$.

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Explanation: To type a manuscript karthik took y hours. Therefore his speed in typing = $1/y$. He was called away after 2 hours of typing. Therefore the work completed = $1/y * 2$. Therefore the remaining work to be completed = $1 - 2/y$. That is, work to be completed = $(y - 2)/y$

5. Which of the following is larger than $3/5$

- a. $1/2$
- b. $39/50$
- c. $7/25$
- d. $3/10$
- e. $59/100$

Answer: (2)

6. The number that does not have a reciprocal is _____. Answer: 1 Explanation: One is the only number exists without reciprocal because the reciprocal of one is one itself.

7. There are 3 persons Sudhir, Arvind, and Gauri. Sudhir lent cars to Arvind and Gauri as many as they had already. After some time Arvind gave as many cars to Sudhir and Gauri as many as they have. After sometime Gauri did the same thing. At the end of this transaction each one of them had 24. Find the cars each originally had. Answer: Sudhir had 39 cars, Arvind had 21 cars and Gauri had 12 cars. Explanation: Sudhir Arvind Gauri
Finally 24 24 24
Before Gauri's transaction 12 12 48
Before Arvind's transaction 6 42 24
Before Sudhir's transaction 39 21 12

8. A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 % gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain, he would lose Rs. 10 in the bargain. The amount paid by him was Rs. _____ for the horse and Rs. _____ for the cart.

Answer: Cost price of horse: Rs. 400 &

Cost price of cart: Rs. 200

Explanation:

Let x be the cost of horse & y be the cost of the cart.

10 % of loss in selling horse = 20 % of gain in selling the cart

Therefore $(10/100) * x = (20 * 100) * y$

$x = 2y$ _____ (1)

5 % of loss in selling the horse is 10 more than the 5 % gain in selling the cart.

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$$\text{Therefore } (5/100) * x - 10 = (5/100) * y$$

$$5x - 1000 = 5y$$

Substituting (1)

$$10y - 1000 = 5y$$

$$5y = 1000$$

$$y = 200$$

$$x = 400 \text{ from (1)}$$