

## Arithmetic Reasoning Questions and Answers Pdf

### Question: 1

A man has a certain number of small boxes to pack into parcels. If he packs 3, 4, 5 or 6 in a parcel, he is left with one over; if he packs 7 in a parcel, none is left over. What is the number of boxes, he may have to pack?

(A) 300

(B) 301

(C) 303

(D) 309

Ans: B

Clearly, the required number would be such that it leaves a remainder of 1 when divided by 3, 4, 5, 6 and no remainder when divided by 7.

Thus, the number must be of the form (L.C.M. of 3, 4, 5, 6)  $x + 1$  i.e.  $(60x + 1)$  and a multiply of 7. Clearly, for  $x = 5$ , the number is multiply of 7. So, the number is 301.

### Question: 2

A student got twice as many sums wrong as he got right. If he attempted 48 sums in all, how many did he solve correctly?

(A) 12

(B) 14

(C) 16

(D) 18

Ans: C

Suppose the boy got  $x$  sums right and  $2x$  sums wrong. Then,

$$x + 2x = 48$$

$$\Rightarrow 3x = 48$$

$$\Rightarrow x = 16.$$

**Question: 3**

In a class, 20% of the members own only two cars each, 40% of the remaining own three cars each and the remaining members own only one car each. Which of the following statements is definitely true from the given statements?

- (A) 80% of the total members own at least one car.
- (B) 60% of the total members own atleast two cars each.
- (C) 48% of the total members own three car each.
- (D) Only 20% of the total members own three cars each.

Ans: C

Let the number of members be 100.

Then, number of members owing only 2 cars = 20.

Number of members owing 3 cars = 40% of 80 = 32.

Number of members owing only 1 car =  $100 - (20 + 32) = 48$ .

Thus, 48% of the total members own one car each.

**Question: 4**

Today is Varun's birthday. One year from today he will be twice as old as he was 12 years ago. How old is Varun today?

- (A) 20 years
- (B) 21 years
- (C) 22 years
- (D) 25 years

Ans: D

Let Varun's age today =  $x$  years.

Then, Varun's age after 1 year =  $(x + 1)$  years.

$$\Rightarrow x + 1 = 2(x - 12)$$

$$\Rightarrow x + 1 = 2x - 24$$

$$\Rightarrow x = 25.$$

**Question: 5**

When Rahul was born, his father was 32 years older than his brother and his mother was 25 years older than his sister. If Rahul's brother is 6 years older than him and his mother is 3 years younger than his father, how old was Rahul's sister when he was born?

(A) 10 years

(B) 14 years

(C) 17 years

(D) 19 years

Ans: A

When Rahul was born,

His brother's age = 6 years.

His father's age =  $(6 + 32)$  years = 38 years.

His mother's age =  $(38 - 3)$  years = 35 years.

His sister's age =  $(35 - 25)$  years = 10 years.