

Aptitude Simplification Questions with Answers Pdf

1. The number of students in each section of school is 24. After admitting new students, three new sections were started. Now, the total number of sections is 16 and there are 21 students in each section. The number of new students admitted is

(A) 10

(B) 14

(C) 24

(D) 48

Ans: C

Original number of series = $(16 - 3) = 13$

Original number of students = $(24 \times 13) = 312$

Present number of students = $(21 \times 16) = 336$

Number of new students admitted = $(336 - 312) = 24$.

2. The total number of digits used in numbering the pages of a book having 366 pages, is

(A) 1305

(B) 1098

(C) 990

(D) 732

Ans: C

Total number of digits = (No. of. digits in 1-digit page nos. + No.of.digits in 2-digit pages nos. + No.of.digits in 3-digit page nos.)

$$= (1 \times 9 + 2 \times 90 + 3 \times 267)$$

$$= (9 + 180 + 801) = 990.$$

3. A man has Rs.480 in the denominations of one rupee notes, five rupee notes and ten rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?

(A) 35

(B) 45

(C) 90

(D) 95

Ans: C

Let number of notes of each denomination be x.

$$\text{Then, } x + 5x + 10x = 480$$

$$16x = 480$$

$$x = 30.$$

Hence, total number of notes = $3x = 90$.

4. $(3080 + 6160) \div 28 = ?$

- (A) 320
- (B) 330
- (C) 3320
- (D) 3350

Ans: B

Given expression = $9240/28$

= 330.

5. A boy multiplied 423 by a number and obtained 65589 as his answer. If both the fives in the answer are wrong and all the other figures are correct, the correct answer is

- (A) 62389
- (B) 62189
- (C) 61189
- (D) 60489

Ans: D

Among the given numbers, only 60489 is a multiple of 423.

6. In an examination, a student scores 4 marks for every correct answer and loses 1 mark for every wrong answer. If he attempts in all 60 questions and secures 130 marks, the number of questions he attempts correctly, is

- (A) 32

(B) 35

(C) 38

(D) 40

Ans: C

Let the number of correct answers be x .

Number of incorrect answers = $(60 - x)$.

$$\therefore 4x - (60 - x) = 130 \Leftrightarrow 5x = 190 \Leftrightarrow x = 38.$$

7. The number of girls in a class is 5 times the number of boys. Which of the following cannot be the total number of children in the class?

(A) 24

(B) 30

(C) 35

(D) 42

Ans: C

Let the number of boys = x .

Then, number of girls = $5x$.

Total number of children = $(x + 5x) = 6x$.

Thus, the total number of children must be multiplied of 6.

8. In a garden, there are 10 rows and 12 columns of mango trees. The distance between the two trees is 2 metres and a distance of one metre is

left from all sides of the boundary of the garden. The length of the garden is

(A) 18 m

(B) 20 m

(C) 22 m

(D) 24 m

Ans: C

Each row contain 12 plants.

Leaving 2 corner plants, 10 plants in between have (10×2) metres and 1 metre on each side is left.

\therefore Length = $(20 + 2)$ m = 22 m.

9. A worker may claim Rs.150 for each km which he travels by taxi and 50 p for each km he drives his own car. If in one week he claimed Rs.50 for travelling 80 km, how many kms did he travel by taxi?

(A) 5

(B) 10

(C) 20

(D) 25

Ans: B

Let the distance covered by taxi be x km.

Then, distance covered by car = $(80 - x)$ km.

$\therefore 1.5x + 0.5(80 - x) = 50$

$\therefore x = 50 - 40 = 10$ km.

10. In a classroom, if 6 students per bench are assigned to accommodate all students, one more bench will be required. However, if 7 students

are accommodated per bench, there would be a space left for 5 students.

What is the number of students in the class?

(A) 25

(B) 30

(C) 42

(D) 72

Ans: D

Let the number of benches in the class be x .

Then, $6(x + 1) = 7x - 5 \Leftrightarrow x = 11$.

Hence, number of students in the class = $6(x + 1) = 6 \times 12 = 72$.

11. $100 \times 10 - 100 + 2000 + 100 = ?$

(A) 29

(B) 780

(C) 920

(D) 979

Ans: C

Given expression = $100 \times 10 - 100 + 20$
= $1000 - 100 + 20 = 1020 - 100 = 920$

12. $7500 + (1250 \div 50) = ?$

(A) 1275

(B) 6575

(C) 7525

(D) 7550

Ans: C

Given expression = $7500 + 25 = 7525$.

13. Income of a company doubles after every one year. If the initial income was Rs. 4 lakhs, what would be the income after 5 years?

(A) Rs. 1.20 crores

(B) Rs. 1.24 crores

(C) Rs. 1.28 crores

(D) Rs. 2.56 crores

Ans: C

Income after 1 years = Rs. (4×2^1) lakhs.

Income after 2 years = Rs. $(4 \times 2 \times 2)$ lakhs = Rs. (4×2^2) lakhs.

\therefore Income after 5 years = Rs. (4×2^5) lakhs

$$= \text{Rs. } 128 \text{ lakhs} = \text{Rs. } 1.28 \text{ crores.}$$

14. The number of students in each section of a school is 24. After admitting new students, three new sections were started. Now, the total number of sections is 16 and there are 21 students in each section. The number of new students admitted is

(A) 14

(B) 20

(C) 24

(D) 48

Ans: C

Original number of sections = $(16 - 3) = 13$.

Original number of students = $(24 \times 13) = 312$.

Present number of students = $(21 \times 16) = 336$.

Number of new students admitted = $(336 - 312) = 24$.

15. After measuring 120 metres of a rope, it was discovered that the measuring metre rod was 3 cm longer. The true length of the rope measured is

(A) 116 m 40 cm

(B) 121 m 20 cm

(C) 123 m 60 cm

(D) 143 m 80 cm

Ans: C

True length of the rope = $120 \text{ m} + (3 \times 120) \text{ cm}$

$$= 120 \text{ m} + 360 \text{ cm}$$

$$= 120 \text{ m} + 3 \text{ m } 60 \text{ cm} = 123 \text{ m } 60 \text{ cm}.$$

16. 32 shirt pieces of 120 cm each can be cut from a reel of cloth. After cutting these pieces 80 cm of cloth remains. What is the length of reel of cloth in metres?

- (A) 36.20 metres
- (B) 38.70 metres
- (C) 39.20 metres
- (D) 39.70 metres

Ans: C

Length of reel = $(32 \times 120 + 80)$ cm = 3920 cm = 39.20 m.

17. A man's investment doubles in every 5 years. If he invested Rs. 5000 in each of the years 1990, 1995, 2000 and 2005, then what was the total amount received by him in 2010?

- (A) Rs. 30,000
- (B) Rs. 70,000
- (C) Rs. 1,50,000
- (D) Rs. 1,80,000

Ans: C

Total amount received received by the man in 2010

$$= \text{Rs. } [(5000 \times 2^4) + (5000 \times 2^3) + (5000 \times 2^2) + (5000 \times 2)]$$

$$= \text{Rs. } (80000 + 40000 + 20000 + 10000) = \text{Rs. } 150000.$$

18. Sweets were distributed equally among 64 children. After giving 7 sweets to each child 15 sweets were left out. Total how many sweets were there?

- (A) 448
- (B) 463
- (C) 473
- (D) 492

Ans: B

Total number of sweets = $(64 \times 7 + 15) = 448 + 15 = 463$.

19. A boy multiplied 423 by a number and obtained 65589 as his answer. If both the fives in the answer are wrong and all the other figures are correct, the correct answer is

(A) 60489

(B) 61189

(C) 62189

(D) 62389

Ans: A

Among the given numbers, only 60489 is a multiple of 423.

20. N number of persons decided to raise Rs. 3 lakhs by equal contribution from each. Had they contributed Rs. 50 each extra, the contribution would have been Rs. 3.25 lakhs. How many persons are there?

(A) 400

(B) 450

(C) 500

(D) 600

Ans: C

$$N \times 50 = (325000 - 300000) = 25000$$

$$N = 500.$$