

Simplification Questions with Solutions Pdf

1. $100 \times 10 - 100 + 2000 + 100 = ?$

(A) 29

(B) 780

(C) 920

(D) 979

Ans: C

$$\begin{aligned} \text{Given expression} &= 100 \times 10 - 100 + 20 \\ &= 1000 - 100 + 20 = 1020 - 100 = 920 \end{aligned}$$

2. $7500 + (1250 \div 50) = ?$

(A) 1275

(B) 6575

(C) 7525

(D) 7550

Ans: C

$$\text{Given expression} = 7500 + 25 = 7525.$$

3. 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

= Rs. 128 lakhs = Rs. 1.28 crores.

4. 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 = $(336 - 312) = 24$.

5. 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

$$\begin{aligned}\text{True length of the rope} &= 120 \text{ m} + (3 \times 120) \text{ cm} \\ &= 120 \text{ m} + 360 \text{ cm} \\ &= 120 \text{ m} + 3 \text{ m } 60 \text{ cm} = 123 \text{ m } 60 \text{ cm}.\end{aligned}$$

6. 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

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

7. 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

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

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

8. 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

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

9. 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.

10. 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

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

$$N = 500.$$

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