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Percentage Questions for CDS, CLAT, SSC and Bank Clerk Pre Exams.

Directions: Kindly study the following Questions carefully and choose the right answer:

1. In a town the ratio of men, women and children is 9 : 8 : 3. 80% men are literate and 30% women are illiterate. If 90% of children are literate, then the percentage of illiteracy of that town is-

A. $22\frac{1}{2}\%$ B. $25\frac{1}{2}\%$ C. 27%   D. 30%   E. None of these

2. The population of a town is 126800. It increases by 15% in the first year and decreases by 20% in the second year. What is the population of the town at the end of 2 year?

A. 174984   B. 135996   C. 116656   D. 145820   E. None of these

3. Difference of two numbers is 1890. If 12.5% of one number is 17.5% of the other number, Find the two numbers.

A. 3780 , 5670   B. 4725 , 6615   C. 2235 , 5890   D. 2540 , 3894   E. None of these

4. Out of his total income, Mr Kapoor spends 20% on house rent and 70% of the rest on household expenses. If he saves Rs. 1800 what is his total income (in rupees)?

A. Rs. 7800   B. Rs. 7000   C. Rs. 8000   D. Rs.. 7500   E. None of these

5. Pradip spends 40 per cent of his monthly income on food items, and 50 per cent of the remaining on clothes and conveyance. He saves one-third of the remaining amount after spending on food, clothes and conveyance. If he saves Rs. 19,200 every year, what is his monthly income?

A. Rs. 24000   B. Rs. 12000   C. Rs. 16000   D. Rs. 20000   E. None of these

6. In a mathematics exam, a student scored 30% in the first paper out of total of 180. How much percent should he score in the second paper (out of 150) if he is to get at least 50% marks overall ?

A. 74   B. 83   C. 27   D. 33   E. None of these

7. A student has to secure 40% marks to pass. He gets 178 marks and fails by 22 marks. The maximum marks are

A. 200   B. 500   C. 800   D. 1000   E. None of these

8. Rohan spends 35% of his salary on house rent, 20% on travelling, 25% on food and remaining is saved. If he saved Rs. 3220, what amount he spent on food?
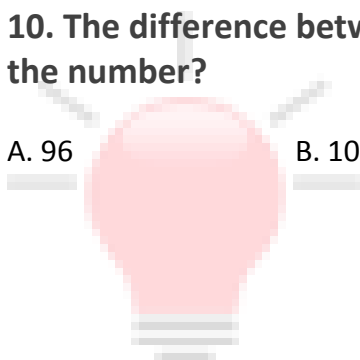
A. Rs. 2054   B. Rs. 5024   C. Rs. 4025   D. Rs. 5240   E. Rs. 4250

9. An army lost 10% of its men in war, 10% of the remaining due to diseases and 10% of the rest were disabled. Thus, the strength was reduced to 729000 active men. Find the original strength.

A. 1000000   B. 1200000   C. 1500000   D. 1800000   E. None of these

10. The difference between 4/5 of a number and 45% of the number is 56. What is 65% of the number?

A. 96   B. 104   C. 112   D. 120   E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
A	C	B	D	C	A	B	C	A	B

Explanations:

1. Ratio of men : women : children = 9 : 8 : 3

Suppose, Men = 90, Women = 80, Children = 30

Total population = 200

Now, No. of literate men = $\dfrac{90 \times 80}{100}$ = 72   **...(i)**

No. of literate women = $\dfrac{80 \times 70}{100}$ = 56   **...(ii)**

No. of literate children = $\dfrac{30 \times 90}{100}$ = 27   **...(iii)**

Total no. of literate person = 155

No. of illiterate people 200 − 155 = 45

So, illiteracy rate = $\dfrac{45}{200} \times 100 = 22\dfrac{1}{2}\%$

Hence, option A is correct.

2. To solve this question, we can apply the net% effect formula

$x + y + \dfrac{xy}{100}\%$

x = 15% and y = − 20%

Applying the net% effect formula

= $15 - 20 - \dfrac{15 \times 20}{100} = -8\%$ (Negative sign shows decrement)

So, (100 – 8)% of 126800

= 92% of 126800

= $\dfrac{92 \times 126800}{100}$ = 92 × 1268 = 116656

Hence, option (C) is correct.

3. Let the number be x and y. then, 12.5% of x = 17.5% of y

$$\Rightarrow \quad x = \frac{175}{125} y \Rightarrow \frac{7}{5} y.$$

Now, x – y = 1890 $\Rightarrow \frac{7}{5} y - y = 1890 \Rightarrow \frac{2}{5} y = 1890$

$$\Rightarrow \quad y = \left(\frac{1890 \times 5}{2}\right) = 4725$$

So, first number = 4725, Second number = $\frac{7}{5} y = 6615$

Hence, option B is correct.

4.
100/-
  ↓ – 20%
  80
  ↓ – 70%
  24 (save)

Now, 24 ≡ 1800
Let the total income be 100, then
24 ≡ 1800
100 ≡ x
By the cross multiplication, we get

$$\Rightarrow \quad x = \frac{1800 \times 100}{24} = 7500/-$$

Hence, option (D) is correct.

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5. Let income be 100.
∴ Income after spending 40% on food items = 100 – 40 = 60
∴ Income after spending 50% of the remaining = 50% of 60 = 30

Savings = $\frac{1}{3} \times 30 = 10$

Now, 10 : 100 : : 19200 : x

∴ yearly income = $\frac{100 \times 19200}{10} = 192000$

∴ Monthly income = $\frac{192000}{12} = 16000$

Hence, option (C) is correct.

6. Total marks in the exam = 180 + 150 = 330

Student's marks in first paper = $\dfrac{30 \times 180}{100}$ = 54

Student gets at least 50% marks overall

∴ Overall marks = $\dfrac{50 \times 330}{100}$ = 165

Student's marks in second paper = 165 – 54 = 111

∴ Required percentage = $\dfrac{111}{150}$ × 100 = 74%

Hence, option (A) is correct.

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7. Let the maximum marks be x.

∴ pass marks = 40% of x = $\dfrac{2}{5}$x

Given, a student gets 178 marks but fails by 22 marks.

∴ Marks to be obtained to pass = 178 + 22 = 200

⇒ $\dfrac{2}{5}$x = 200

⇒ x = 500

∴ Maximum marks = 500

Hence, option (B) is correct

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8. Let Rohan's salary be Rs. 100.

∴ Rohan's total expenditure = 35 + 20 + 25 = Rs. 80

∴ Rohan's saving = Rs. 20

Now, 20 : 100 : : 3220 : x

⇒ x = $\dfrac{100 \times 3220}{20}$ = Rs. 16100

∴ Expenditure on food = 16100 × $\dfrac{25}{100}$ = Rs. 4025

Hence, option (C) is correct.

9. Let there be 100 men in the beginning.

After losing 10% of 100 in war = 100 − 10 = 90

After losing 10% of remaining due to diseases = (100 − 10)% of 90 = 81

After losing 10% of rest due to disability = (100 − 10)% of 81 = 72.9

Now, 72.9 : 100 : : 729000 : x

$$\therefore \; x = \frac{100 \times 729000}{72.9} = 1000000$$

Hence, option (A) is correct.

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10. Let the number be x.

Then, $x \times \dfrac{4}{5} - 45\%$ of $x = 56$

or, $\dfrac{4x}{5} - \dfrac{45}{100} \times x = 56$

or, $\dfrac{16x - 9x}{20} = 56$

or, $\dfrac{7x}{20} = 56$

$\therefore \; x = \dfrac{56 \times 20}{7} = 160$

$\therefore \; 65\%$ of $160 = \dfrac{65 \times 160}{100} = 104$

Hence, option (B) is correct.