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Percentage Questions for CDS, CLAT and SSC Exams.

Percentage Quiz 4

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

1. 50% of a number when added to 50 is equal to the number. The number is

- A. 50 B. 75 C. 100 D. 150

2. A epidemic broke out in a village in which 5% of the population died. Of the remaining, 20% fled out of panic. If the present population is 4655, then the population of the village originally was

- A. 6000 B. 6125 C. 5995 D. 5855

3. In an examination it is required to get 290 of the aggregate marks to pass. A student gets 203 marks and is declared failed by 12% of total marks, what are the maximum aggregate marks a student can get?

- A. 775 B. 750 C. 725 D. Can't be determined

4. The discount equivalent to two successive discounts of 10% is:

- A. 17% B. 19% C. 20% D. 21%

5. Find a single discount equivalent to a discount series of 10%, 20% and 25%.

- A. 55% B. 45% C. 46% D. 52%

6. An article which is marked at Rs. 975 is sold for Rs. 897. The % discount;

- A. 6% B. 8% C. 10% D. 12%

7. In an examination, a student must get 36% marks to pass. A student who gets 190 marks failed by 35 marks. The total marks in that examination is:

- A. 450 B. 550 C. 625 D. 810

8. If 50% of $(x - y) = 40\%$ of $(x + y)$, then what percent of x is y ?

A. $10\frac{1}{9}\%$

B. $11\frac{1}{9}\%$

C. $13\frac{1}{9}\%$

D. $21\frac{1}{9}\%$

9. A person spends 30% of monthly salary on rent, 25% on food, 20% on children's education and 12% on electricity and the balance of Rs. 1040 on the remaining items. What is the monthly salary of the person?

A. Rs. 8000

B. Rs.9000

C. Rs. 9600

D. Rs. 10600

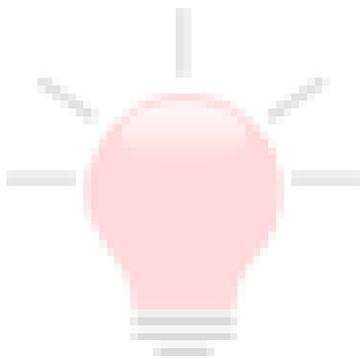
10. If salary of X is 20% more than salary of Y , then by how much percentage is salary of Y less than X ?

A. 25

B. 20

C. $\frac{50}{3}$

D. $\frac{65}{4}$



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Correct Answers:

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

Explanations:

1. Let's the number be x, then

$$50\% \text{ of } x + 50 = x$$

$$\Rightarrow \frac{x}{2} + 50 = x \Rightarrow x + 100 = 2x \Rightarrow x = 100.$$

Hence, option (C) is correct.

2.

$$\text{Net\% effect} = \left[-x - y + \frac{xy}{100} \right] \%$$

$$= \left[-5 - 20 + \frac{5 \times 20}{100} \right] = -25 + 1 = -24\%$$

$$\therefore \text{Current population} = 100 - 24 = 76\%$$

With ratio & proportion rule,

$$76\% : 4655 :: 100\% : ?$$

$$\therefore ? = \frac{4655 \times 100}{76} = 245 \times 25 = 6125.$$

Hence, option (B) is correct.

3. Let's maximum aggregate marks = x

$$203 + 12\% \text{ of } x = 290$$

$$12\% \text{ of } x = 290 - 203 \Rightarrow x = \frac{87 \times 100}{12} = 725.$$

Hence, option (C) is correct.

4. To solve this question, we can apply a short trick approach;

$$\text{Net\% effect} = \left(x + y + \frac{xy}{100} \right) \%$$

Increase or decrease, according to the +ve or -ve sign respectively.

Given;

$$\text{First discount} = x = -10\%$$

Second discount = $y = -10\%$

By the short trick approach, we get

$$= \left(-10 - 10 + \frac{(-10 \times -10)}{100} \right) = -19\%$$

Hence, option (B) is correct.

5. To solve this question, we can apply a net% effect formula

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

For the 1st scenario;

$$x = -10\%, y = -20\%$$

$$-10 - 20 + \frac{10 \times 20}{100} = -30 + 2 = -28\%$$

For the 2nd scenario;

$$x = -28\%, y = -25\%$$

$$-28 - 25 + \frac{28 \times 25}{100} = -53 + 7$$

$$= -46\%. \quad (- \text{ shows the decrement})$$

Hence, option (C) is correct.

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6.

$$\text{Discount}\% = \frac{975 - 897}{975} \times 100 = \frac{78 \times 100}{975} = 8\%.$$

Hence, option (B) is correct.

7. As per the given information, we get

$$36\% = 190 + 35 = 225$$

$$100\% = x$$

By the cross multiplication, we get

$$x = \frac{225 \times 100}{36} = 625.$$

Hence, option (C) is correct.

8. 50% of $(x - y) = 40\%$ of $(x + y)$

$$\Rightarrow 5(x - y) = 4(x + y)$$

$$\Rightarrow 5x - 5y = 4x + 4y$$

$$\Rightarrow x = 9y \dots(i)$$

Let $r\%$ of $x = y$

$$\Rightarrow \frac{r}{100} \times x = y$$

By putting $x = 9y$ in equation, we get

$$\Rightarrow \frac{r}{100} \times 9y = y$$

$$\Rightarrow r = \frac{100}{9} = 11\frac{1}{9}\%$$

Hence, option (B) is correct.

9. Let the monthly salary of the person be x . then,

Total spends of a person = $(30 + 25 + 20 + 12) = 87\%$

Remaining % = $100 - 87 = 13\%$

So, $13\% \equiv 1040$

$$100\% \equiv x$$

By the cross multiplication, we get

$$x = \frac{1040 \times 100}{13} = 80 \times 100 = \text{Rs. } 8000.$$

Hence, option (A) is correct.

10. Let the salary of Y be 100. then,

Salary of X will be 120.

$$Y \text{ less than X in } \% = \frac{120 - 100}{120} \times 100 = \frac{20}{120} \times 100 = \frac{50}{3}\%$$

Hence, option (C) is correct.



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