



Percentages Questions for SBI PO 2020 PDF

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Instructions

For the following questions answer them individually

Question 1

An HR Company employs 4800 persons, out of which 45 percent are males and 60 percent of the males are either 25 years or older. How many males are employed in that HR Company who are younger than 25 years?

- A 2640
- B 2160
- C 1296
- D 864
- E None of these

Answer: D

Explanation:

Total employees = 4800

45% of employees are males = $\frac{45}{100} \times 4800 = 2160$

60% of 2160 are equal to or older than 25

So 40% of 2160 are younger than 25 years = $\frac{40}{100} \times 2160 = 864$

Question 2

If the numerator of certain fraction increased by 100% and the denominator is increased by 200% the new fraction thus formed is $\frac{4}{21}$. What is the original fraction ?

- A $\frac{2}{7}$
- B $\frac{3}{7}$
- C $\frac{2}{5}$
- D $\frac{4}{7}$
- E None of these

Answer: A

Explanation:

If the numerator (assume to be x) is increased by 100%, it becomes 2x

and the denominator (assume to be y) is increased by 200%, it becomes 3y.

The new fraction is $\frac{2x}{3y} = \frac{4}{21}$

Hence, simplifying we get fraction has $\frac{2}{7}$

Question 3

Mr Shamin's salary increase every year by 10% in June. If there is no other increase or reduction in the salary and his salary in June 2011 was rs 22,385, what was his salary in June 2009 ?

- A rs 18,650
- B rs 18,000
- C rs 19,250

D Rs 18,500

E None of these

Answer: D

Explanation:

Here, the salary is compounded every year.

Let salary be x.

$$22385 = x(1+1)^2$$

$$x = 18,500$$

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Question 4

Ms Deepti Jain invests 11% of her monthly salary ie Rs 5,236 in Fixed Deposits Later she invests 19% of her monthly salary on Life Insurance Policies also she invests another 7 % of her monthly salary on Mutual Funds what is the total annual amount invested by Ms Deepti Jain ?

A Rs 2,11,344

B Rs 17,612

C Rs 1,05,672

D Rs 35,224

E None of these

Answer: A

Explanation:

Let x be monthly salary of Deepti Jain.

$$11\% \text{ of } x = 5,236.$$

$$x = 47600$$

$$\begin{aligned} \text{Now total investment by Deepti Jain} &= \text{Investment in Fixed Deposit} + \text{Investment in Mutual Funds} + \text{Investment in Insurance policies} \\ &= 19\% + 11\% + 7\% = 37\% \text{ of Salary} = 37\% \text{ of } 47600 \\ &= 17,612 \end{aligned}$$

$$\text{Total amount for 12 month} = 12 \times 17612 = 2,11,344$$

Question 5

Manas decided to donate 12% of his salary On the day of donation he changed his mind and donated Rs 2,240 which was two-third of what he had decided earlier How much is Mana's salary ?

A Rs 25,000

B Rs 28,000

C Rs 31,000

D Rs 34,000

E None of these

Answer: B

Explanation:

Let Manas salary be x.

$(\frac{2}{3})^{\text{rd}}$ of 12% of $x = 2240$
 $\frac{2}{25}$ of $x = 2240$
 $x = 28000$
Hence, Manas salary is 28000.

Question 6

The sum of 15% of a positive number and 10% of the same number is 70. What is twice of that number ?

- A 440
- B 280
- C 560
- D 140
- E None of these

Answer: C

Explanation:

Let the number be x .
15% of $x + 10\%$ of $x = 70$
25% of $x = 70$
 $x = 70 \times 4$
 $x = 280$
Now, twice of 280 = $280 \times 2 = 560$
The correct option is option C.

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Question 7

Mohan distributed his total assets to his wife, three sons, two daughters and five grandchildren in such a way that each grandchild got one-eighth of each son or one-tenth of each daughter. His wife got 40 per cent of the total share of his sons and daughters together. If each daughter received asset of worth Rs. 1.25 lakh. What was the total worth of the assets received by his wife and his five grandchildren together ?

- A Rs. 32,500
- B Rs. 2,57,500
- C Rs. 2,82,500
- D Cannot be determined
- E None of these

Answer: C

Explanation:

One eighth of the amount received by each son is equal to one tenth the amount received by each daughter.

As each daughter received Rs. 1.25 lakhs, it means that each son received $1.25 \times \frac{8}{10} = 1$ lakh.

So, the total amount received by 3 sons and 2 daughters is $3 \times 1 + 2 \times 1.25 = 5.5$ lakhs

Hence, the amount received by the wife is $40\% \times 5.5 = 2.2$ lakhs

Amount received by each grandson is $\frac{1}{10}$ th the amount received by each daughter i.e. 0.125 lakhs

Hence, the total amount received by 5 grandchildren is $5 \times 0.125 = 0.625$ lakhs

So, total received by wife and grandchildren is $2.2 + 0.625 = 2.825$ lakhs = 2,82,500

Question 8

The difference between 55% of a number and 14% of the same number is 8610. What is 85% of that number ?

- A 17850
- B 16820
- C 18020
- D 19450
- E None of these

Answer: A

Explanation:

Let the number be X.

So, $55\% \times X - 14\% \times X = 8610$

Therefore, $41\% \times X = 8610$

Or $X = 8610 \times 100 / 41 = 21000$

Therefore, 85% of the number is $85\% \times 21000 = 17,850$

Question 9

In an examination it is required to get 55% of the aggregate marks to pass. A student gets 520 marks and is declared failed by 5% marks. What are the maximum aggregate marks a student can get ?

- A 960
- B 1250
- C 1040
- D Cannot be determined
- E None of these

Answer: C

Explanation:

The marks the student gets is 520.

As the student failed by 5%, percentage of marks received by the student is $55 - 5 = 50\%$

Hence, the maximum aggregate marks that a student could have received is $520 \times 100 / 50 = 1040$

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Question 10

80% of a number is equal to three-fifths of another number. What is the ratio between the first and the second number ?

- A 3:4
- B 4:3
- C 4:5
- D 5:4
- E None of these

Answer: A

Explanation:

Let the two numbers be X and Y.

So, $80\% \text{ of } X = \frac{3}{5} \text{ of } Y$

or $\frac{4}{5} * X = \frac{3}{5} * Y$

Therefore, $X:Y = 3:4$

Question 11

What quantity of water should be added to 3 litres of 10% solution of salt, so that it becomes a 5% salt solution ?

- A 1.5 litres
- B 2.7 litres
- C 3 litres
- D Cannot be determined
- E None of these

Answer: C

Explanation:

The quantity of salt in 3 litres of the solution is $10\% * 3 = 0.3$ litres.

Let the quantity of water added be X.

So, $(X+3)*5\% = 0.3$

Or, $X+3 = 0.3*20 = 6$

Hence, $X=3$ litres

Question 12

Mr.Davar spends 38% of his monthly income on food 25% on children's education and 12% on transport and the remaining amount of Rs 5,800 he saves.What is Mr.Davar's monthly income ?

- A Rs 23,200
- B Rs 24,200
- C Rs 23,800
- D Rs 24,400
- E None of these

Answer: A

Explanation:

The total percentage of his income that Mr. Davar spends equals $38\% + 25\% + 12\% = 75\%$

Hence, the percentage of his monthly income that Mr. Davar saves is $100-75 = 25\%$

This equals Rs. 5,800

Hence, Mr. Davar's monthly income equals $5800 * 100/25 = \text{Rs. } 23,200$

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Question 13

The averages of five consecutive odd number is 84 per cent of the highest number.What is the sum of the first two of these numbers ?

- A 64
- B 32

- C 36
- D 44
- E None of these

Answer: C

Explanation:

Let the five odd numbers be $a, a+2, a+4, a+6$ and $a+8$.
Hence, their sum equals $5a + 20$ and their average is $a+4$
As given in the question, $(a+4)/(a+8) = 84/100 = 21/25$
Therefore, $25a + 100 = 21a + 168$
Or, $4a = 68$
Hence, $a = 17$

Hence, the first two numbers are 17 and 19 and their sum is 36

Question 14

Gaurav spends 40% of the amount he received from his father on hostel expenses, 20% on books and stationery and 50% of the remaining on transport. He saves Rs 450 which is half the remaining amount spending on hostel expenses, books etc. and transport. How much money did he get from his father ?

- A Rs 3,000
- B Rs 6,000
- C Rs 4,500
- D Can't be determined
- E None of these

Answer: C

Explanation:

Let the money Gaurav inherited be equal to X

So, his hostel expenses equal $0.4X$
Expenses on books and stationery is $0.2X$
Remaining amount is $X - 0.4X - 0.2X = 0.4X$

Transport expenses is 50% of $0.4X = 0.2X$
Remaining amount is $0.4X - 0.2X = 0.2X$

He saves 50% of it, that is $0.1X$ and it equals 450.
So, the value of X is $450/0.1 = 4500$

Question 15

In an examination it is required to get 55% of the aggregate marks to pass. A student got 340 and was declared fail by 5% marks. What are the maximum aggregate marks a student can get ?

- A 650
- B 660
- C 680
- D Cannot be determined
- E None of these

Answer: C

Explanation:

Let maximum aggregate marks be m

Since the student was declared fail by 5% marks

it means the student has secured $55-5 = 50\%$ of maximum aggregate marks

So

$$0.5m = 340$$

$$m = 680$$

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