

THE CLAT COMBAT

Quantitative Technique 2

Directions (1-5): Read the following information and answer the questions that follow.

There are 4 persons A1, A2, A3 and A4 who decided to buy subscriptions of different OTT (Over the Top) platforms such as Netflix, Prime, Hotstar, HBO and Zee. The rate of subscription of every platform is different for every person. The person A1 spent 15% of his income on buying the subscription of Netflix. He spent 20% of his income on buying the subscription of Prime, 12% of his income on buying subscription of Hotstar, 30% of his income on HBO and the remaining 23% on buying the subscription of Zee. The person A2 spent 18% of his income on purchasing the subscription of Netflix, 12% of his income on Prime and 10% on purchasing the subscription of Hotstar. Out of the remaining amount, person A2 spent 40% on buying the subscription of HBO and with his leftover income he purchased the subscription of Zee. The person A3 spent 18% of his income on purchasing the subscription of Prime and 12% on Netflix. Out of the remaining amount he spent 20% on purchasing the subscription of Hotstar, 50% on purchasing HBO and with the remaining amount he purchased Zee. The fourth person A4, spent 20% of his income on purchasing Netflix. Out of the remaining amount, he spent 10% on Prime, 25% on Hotstar, 15% on Zee and the remaining on HBO.

- If the income of the person A2 is Rs.16000 then, find the amount spent by him on purchasing the subscription of HBO?
(a) 6400 (b) 5680 (c) 4260 (d) 3840
- If salary of all the four persons is same then, which of the following spends highest amount of his salary on purchasing the subscription of Zee?
(a) A1 (b) A2 (c) A3 (d) Cannot be determine
- Which of the following person spends the least amount on purchasing the subscription of HBO?
(a) A1 (b) A2 (c) A3 (d) Cannot be determine
- Find the ratio of amount spent by A2 on Netflix and the amount spent by A3 on Zee if the income of A2 is Rs.24000 and the income of the person A3 is Rs.16000.
(a) 9:7 (b) 7:9 (c) 6:5 (d) 5:6
- If the income of A4 is Rs.12000 and the ratio of income of A1 and A4 is 2:3 then, find the amount spend by A1 on Hotstar is what percent more than the amount spend by A4 on the subscription of Prime?
(a) 50% (b) 25% (c) 0% (d) 100%

1. Ans. d

Sol. COMMON EXPLANATION

	NETFLIX	PRIME	HOTSTAR	HBO	ZEE
A1	15%	20%	12%	30%	23%
A2	18%	12%	10%	24%	36%
A3	12%	18%	14%	35%	21%
A4	20%	8%	20%	40%	12%

(Here the values in bold are calculated from the remaining amount)

The amount spent by A2 on HBO = 24% of his income

= 24% of 16000 = 3840

Hence, option (d) is correct.

2. Ans. b

Sol. Following the COMMON EXPLANATION

If salary of all four is same then, the person A2 spends the highest amount of his salary on purchasing the subscription of Zee.

Hence, option (b) is correct.

3. Ans. d

Sol. Following the COMMON EXPLANATION

As, we do not have the exact income of all this persons so we cannot determine who spends the least amount on purchasing the subscription of HBO.

Hence, option (d) is correct.

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4. Ans. a

Sol. Following the COMMON EXPLANATION

Income of A2 = 24000 and amount spent on Netflix = 18%

Income of A3 = 16000 and amount spent on Zee = 21%

$$\text{Required ratio} = \frac{24000 * 18\%}{16000 * 21\%} = 9:7$$

Hence, option (a) is correct.

5. Ans. c

Sol. Following the COMMON EXPLANATION

Ratio of income of A1 and A4 = 2:3 and the income of A4 is Rs.12000

Thus, the income of A4 = 8000

A1 on Hotstar = 12% of 8000

A4 on Prime = 8% of 12000

Both these amounts are equal.

Hence, option (c) is correct.