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DI table Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, RBI Assistant Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

DI Table Chart No 102

Directions: Study the following tab le chart carefully and answer the questions given beside.

Three districts A, B and C of Agra receive a certain number of N95 masks from manufacturers in five different cities.

The table given below shows the average number of masks received by each district from each city, ratio of masks received by C and that received by A and B together and also the ratio of masks received by A and B.

	Average Masks	C/(A + B)	A : B
Varanasi	4200	1/8	2 : 3
Jaipur	5400	1/5	7 : 2
Bhilwara	2400	2/7	2 : 5
Surat	2650	1/4	3 : 7
Ajmer	2420	2/9	2 : 7

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1. The masks received by A from Ajmer is what percent of the masks received by B from Bhilwara?

A. 27.5% B. 25% C. 35% D. 33% E. 32.5%

2. What is the average number of masks received by B from Surat and Ajmer?

A. 4482 B. 4223 C. 4536 D. 4584 E. 4566

3. What is the difference between the masks received by A and B together from Varanasi and Bhilwara?

A. 5600 B. 4200 C. 5240 D. 5800 E. 5400

4. What is the ratio of the total number of masks received by C from Surat and Ajmer to that received by B and C from Jaipur?

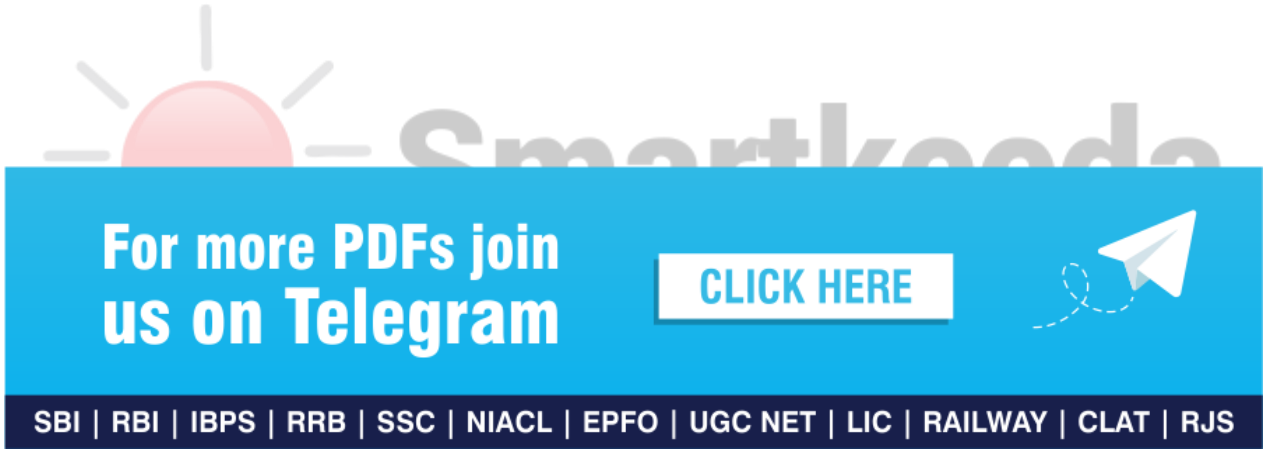
A. 97 : 190 B. 82 : 185 C. 17 : 52 D. 32 : 85 E. None of these

5. **What is the difference between the number of masks received by A from Jaipur, Bhilwara, and Surat and the number of masks received by B from Varanasi, Surat, and Ajmer?**

A. 1748 B. 786 C. 1640 D. 1790 E. None of these

Correct Answers:

1	2	3	4	5
D	C	A	A	E



Common Explanation:

Total masks received from Varanasi = 3 × 4200 = 12600

$$\frac{C}{A+B}=\frac{1}{8}$$

Adding 1 on both sides

$$\frac{C}{A+B}+1=\frac{1}{8}+1$$

$$\frac{C+A+B}{A+B}=\frac{9}{8}$$

$$\frac{4200x3}{A+B}=\frac{9}{8}$$

Masks delivered to A+B = $\frac{8}{9}$ × 4200x3 = 11200

A + B = 11200
A : B = 2 : 3

Masks received to A = $\frac{2}{5}$ × 11200 = 4480

Masks received by B = 11200 – 4480 = 6720
Masks received by C = 4200x3 – 11200 = 1400

Similarly calculating for each state, we get:

City	Total	A	B	C
Varanasi	12600	4480	6720	1400
Jaipur	16200	10500	3000	2700
Bhilwara	7200	1600	4000	1600
Surat	7950	1908	4452	1590
Ajmer	7260	1320	4620	1320

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Answers :

1. From common explanation, we have

$$\text{Reqd. \%} = \frac{1320}{4000} \times 100 = 33\%$$

Hence, option D is correct.

2. From common explanation, we have

$$\text{Reqd. average} = \frac{4452 + 4620}{2} = 4536$$

Hence, option C is correct.

3. From common explanation, we have

Required difference = (4480 + 6720) – (1600 + 4000) = 5600

Hence, option A is correct

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4. From common explanation, we have

Required ratio = (1320 + 1590) : (3000 + 2700) = 97 : 190

Hence option A is correct

5. From common explanation, we have

Masks receive by A from Jaipur, Bhilwara and Surat = 10500 + 1600 + 1908 = 14008

Masks received by B from Varanasi, Surat and Ajmer = 6720 + 4452 + 4620 = 15792

Required difference = 15792 – 14008 = 1784

Hence, option E is correct.

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