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DI Info Chart Questions for IBPS PO Pre, IBPS Clerk, LIC AAO, RRB Scale I Pre, SBI PO Pre and SBI Clerk Exams

DI Info Chart Quiz 32

Directions: Study the following information carefully and answer the questions given beside.

Three companies Xiomi, Vivo and Realme sold mobiles in 3 different months January, February and March. In January, Xiomi sold 20% more mobiles than February. Ratio of mobiles sold by Vivo in February to Realme in March was 8:5. Total number of mobiles sold by Xiomi in three months together was 2270. Vivo sold 350 more mobiles than Realme in February. In February, Xiomi sold 75% of mobiles sold by Vivo in same month. There was decrease in 20% of mobiles sold from February to March by Vivo. Total number of mobiles sold in March by three companies together was 2090. Total number of mobiles sold by Realme in three months together was 1250 and Vivo sold 540 mobiles in January.

1. What is the difference between total number of mobiles sold by Xiomi and Vivo in three months together?

A. 290   B. 220   C. 320

D. 370   E. 250

2. Find ratio of mobiles sold by Xiomi in February and March together to mobiles sold by Realme in January and February together.

A. 28 : 13   B. 31 : 15   C. 12 : 7

D. 23 : 17   E. 36 : 23

3. Mobiles sold by Xiomi and Vivo in February together is what percentage (approx) of mobiles sold by all three in January?

A. 73%   B. 96%   C. 82%

D. 90%   E. 62%

4. Average rate per mobile sold by Xiomi in January was Rs. 8000 and same for Realme in March was Rs. 8800. What was the difference of revenue earned by Xiomi in January and Realme in March?

A. Rs. 12,40,000   B. Rs. 13,60,000   C. Rs. 14,20,000

D. Rs. 11,80,000   E. Rs. 16,30,000

5. Find the total number of mobiles sold by all three companies in three months together.

A. 5200   B. 5500   C. 5000

D. 4800   E. 5800

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Correct option:

1	2	3	4	5
A	B	D	B	B

Explanation:

1. Let mobiles sold by Vivo in February be 8x

    Mobiles sold by Realme in March = 5x

    Mobiles sold by Xiomi in February = 75% of 8x = 6x

    Mobiles sold by Xiomi in January = 120% of 6x = 7.2x

    Mobiles sold by Realme in February = 8x – 350

    Mobiles sold by Xiomi in March = 2270 – 6x – 7.2x = 2270 – 13.2x

    Mobiles sold by Vivo in March = 80% of 8x = 6.4x

    So 5x + 2270 – 13.2x + 6.4x = 2090

    1.8x = 180

    x = 100

    For Xiomi:

    Mobiles sold in January = 720

    Mobiles sold in February = 600

    Mobiles sold in March = 950

    Total mobiles sold = 2270

    For Vivo:

    Mobiles sold in January = 540

    Mobiles sold in February = 800

    Mobiles sold in March = 640

    Total mobiles sold = 1980

    For Realme:

    Mobiles sold in January = 1250 – 450 – 500 = 300

    Mobiles sold in February = 450

    Mobiles sold in March = 500

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Total mobiles sold = 1250

Difference = 2270 − 1980 = 290

Hence, option A is correct.

2. Let mobiles sold by Vivo in February be 8x

Mobiles sold by Realme in March = 5x

Mobiles sold by Xiomi in February = 75% of 8x = 6x

Mobiles sold by Xiomi in January = 120% of 6x = 7.2x

Mobiles sold by Realme in February = 8x − 350

Mobiles sold by Xiomi in March = 2270 − 6x − 7.2x = 2270 − 13.2x

Mobiles sold by Vivo in March = 80% of 8x = 6.4x

So 5x + 2270 − 13.2x + 6.4x = 2090

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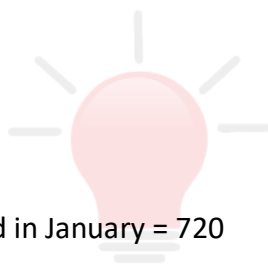
Mobiles sold in February = 800

Mobiles sold in March = 640

Total mobiles sold = 1980

For Realme:

Mobiles sold in January = 1250 − 450 − 500 = 300

Mobiles sold in February = 450

Mobiles sold in March = 500

Total mobiles sold = 1250

Mobiles sold by Xiomi in February and March together = 600 + 950 = 1550

Mobiles sold by Realme in January and February together = 300 + 450 = 750

Ratio = 1550 : 750 = 31 : 15

Hence, option B is correct.

3. Let mobiles sold by Vivo in February be $8x$

Mobiles sold by Realme in March = $5x$

Mobiles sold by Xiomi in February = 75% of $8x$ = $6x$

Mobiles sold by Xiomi in January = 120% of $6x$ = $7.2x$

Mobiles sold by Realme in February = $8x - 350$

Mobiles sold by Xiomi in March = $2270 - 6x - 7.2x = 2270 - 13.2x$

Mobiles sold by Vivo in March = 80% of $8x$ = $6.4x$

So $5x + 2270 - 13.2x + 6.4x = 2090$

$1.8x = 180$

$x = 100$

For Xiomi:

Mobiles sold in January = 720

Mobiles sold in February = 600

Mobiles sold in March = 950

Total mobiles sold = 2270

For Vivo:

Mobiles sold in January = 540

Mobiles sold in February = 800

Mobiles sold in March = 640

Total mobiles sold = 1980

For Realme:

Mobiles sold in January = 1250 − 450 − 500 = 300

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Mobiles sold in February = 450

Mobiles sold in March = 500

Total mobiles sold = 1250

Mobiles sold by Xiomi and Vivo in February together = 600 + 800 = 1400

Mobiles sold by all three in January = 720 + 540 + 300 = 1560

Percentage = $\dfrac{1400}{1560} \times 100$ = 90%

Hence, option D is correct.

4. Let mobiles sold by Vivo in February be 8x

Mobiles sold by Realme in March = 5x

Mobiles sold by Xiomi in February = 75% of 8x = 6x

Mobiles sold by Xiomi in January = 120% of 6x = 7.2x

Mobiles sold by Realme in February = 8x − 350

Mobiles sold by Xiomi in March = 2270 − 6x − 7.2x = 2270 − 13.2x

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So 5x + 2270 − 13.2x + 6.4x = 2090

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Mobiles sold in March = 640

Total mobiles sold = 1980

For Realme:

Mobiles sold in January = 1250 – 450 – 500 = 300

Mobiles sold in February = 450

Mobiles sold in March = 500

Total mobiles sold = 1250

Revenue earned by Xiomi in January = 8000 × 720 = Rs. 57,60,000

Revenue earned by Realme in March = 8800 × 500 = Rs. 44,00,000

Difference = 57,60,000 – 44,00,000 = Rs. 13,60,000

Hence, option B is correct.

5. Let mobiles sold by Vivo in February be 8x

Mobiles sold by Realme in March = 5x

Mobiles sold by Xiomi in February = 75% of 8x = 6x

Mobiles sold by Xiomi in January = 120% of 6x = 7.2x

Mobiles sold by Realme in February = 8x – 350

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Mobiles sold in January = 1250 – 450 – 500 = 300

Mobiles sold in February = 450

Mobiles sold in March = 500

Total mobiles sold = 1250

Total mobiles sold = 2270 + 1980 + 1250 = 5500

Hence, option B is correct.