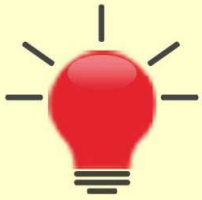

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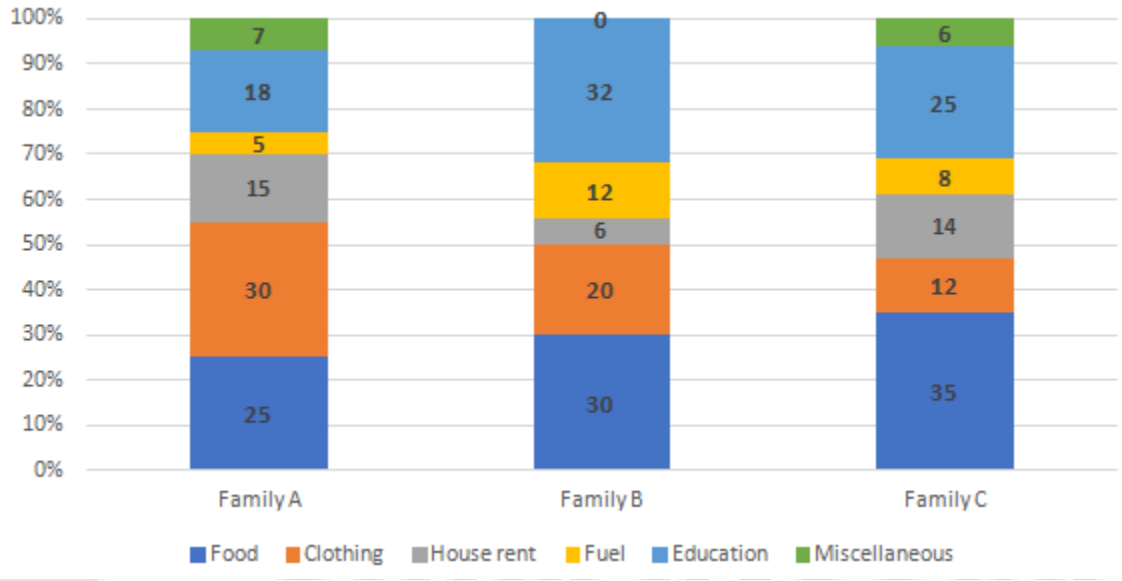
DI Bar Chart Quiz 47

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

The following stacked chart gives the information about the percentage of expenditure of three families on various items. The total expenditures of them are equal to the total income.



1. If the miscellaneous expenditures of family C is Rs. 1200 and the income of family B is 150% of the income of family C then find the total expenditure on food by the family B?

A. Rs. 9000 B. Rs. 12000 C. Rs. 9060 D. Rs. 15000 E. None of these

2. If the respective ratio of the income of family A, Family B, and family C is 7 : 5 : 4 then find the respective ratio of their expenditure on fuel?

A. 7 : 5 : 4 B. 5 : 12 : 8 C. 35 : 60 : 32 D. 21 : 20 : 10 E. None of these

3. If the difference between the total expenditure by family A on fuel and the total expenditure by family B on clothing is Rs. 15000 and the respective ratio of the income of family A and the income of family B is 2 : 3 then find the total income of family B?

A. Rs. 120000 B. Rs. 90000 C. Rs. 60000 D. Rs. 52000 E. Can't be determined

4. If the total income of family C is Rs. 55000 then find the total amount spent by them on Food, Clothing, and House rent together?

A. Rs. 32550 B. Rs. 30550 C. Rs. 34550 D. Rs. 33500 E. None of these

5. What is the respective ratio of the total expenditure on education by family A, family B, and Family C?

A. 18 : 32 : 25 B. 8 : 16 : 12 C. 3 : 5 : 4 D. 9 : 16 : 12 E. Can't be determined

Correct Answers:

1	2	3	4	5
A	C	B	E	E

Explanations:

1. Let the income of family c = 100x

Then Miscellaneous expenditures = 6% of 100x = 6x = 1200,

X = 200

The income of family C = 100x = 100 × 200 = Rs. 20000

According to the question, the income of family B = 150% of 20000 = Rs.30000

Expenditure on food by family B = Rs. 30% of 30000 = Rs. 9000

Hence, option A is correct.

2. If the respective ratio of the income of family A, Family B, and family C is 7 : 5 : 4

Let the income of family A = Rs. 7x

Let the income of family B = Rs. 5x

Let the income of family C = Rs. 4x

The respective ratio of their expenditure on fuel = 5% of 7x : 12% of 5x : 8% of 4x = 35 : 60 : 32

Hence, option C is correct.

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3. The respective ratio of the income of family A and the income of family B is 2: 3

Let the total income of family A = 2X and the total income of family B = 3x

If the difference between the total expenditure by family A on fuel and the total expenditure by family B on fuel = 20% of 3x – 5% of 2x = 15000

60x – 10x = 1500000

50x = 1500000

$x = \frac{150000}{50} = 30000$

The total income of family B = 3x = 3 × 30000 = Rs. 90000

Hence, option B is correct.

4. The total amount spent by family C on Food, Clothing, and House rent together = (12 + 14 + 35)% = 61% of the total income = 61% of 55000 = Rs. 33550

Hence, option E is correct.

5. Since we don't know there total income and in question we have information only about their respective expenditure so it is not possible to find their respective ratio of expenditures.

Hence, option E is correct.

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