

PROBLEMS BASED ON FRACTION

Fraction – The relation to represent some part of the body to the whole body is known Fraction.

For Example - $\frac{4}{5}$ means 4 parts taken out of 5 equal parts of body.

One – quarter part of the body = $\frac{1}{4}$ of it

One – third part of the body = $\frac{1}{3}$ of it

Half part of the body = $\frac{1}{2}$ of it

Three – fourth part of the body = $\frac{3}{4}$ of it

Whole part of the body = 1 of it

One – seventh part of the body = $\frac{1}{7}$ of it

And One – fifth part of the body = $\frac{1}{5}$ of it

Numerator – The upper part of a fraction is known as numerator of the fraction.

Denominator – The lower part of a fraction is known as denominator of the fraction.

Some Unsolved Examples

Example 1- Prakash gave one – fourth of his money to Sameer in turn gave half of what he received to Jayesh. If the difference between the money left with Prakash and the money received by Jayesh is of Rs. 500, what did Sameer get from prakash ?

Example 2- Prashant gave 30 % of his money to Tarun. Tarun in turn gave $\frac{2}{3}$ rd of what he received to Jayesh. Jayesh gave Rs. 100 from the money he received to a taxi driver, then he is left with Rs. 300.

Example 3- $\frac{1}{2}$ th part of the money of Nikhil is equal to $\frac{1}{4}$ th part of the money of Yogesh. If total sum of money of both is equal to Rs. 600 then. What is the difference of their money ?

Example 4- 70 cm long wire is cut into two parts such that first part is equal to $\frac{2}{5}$ th of the second part. What is the length of the small wire ?

Example 5- In an office there are 114 tables and 129 chairs. If $\frac{1}{6}$ of the tables and $\frac{1}{3}$ of the chairs are broken, how many people work in the office when each person requires one table and one chair ?

EXERCISE

1. A tank is filled with $\frac{3}{4}$ part of it with water. If 5 litre of water is added to it, the tank is filled with $\frac{4}{5}$ part of it. What is the capacity of the tank ?
(a) 100 litre (b) 120 litre
(c) 50 litre (d) 110 litre
(e) None of these
2. $\frac{1}{3}$ part of the marks obtained by Gauri in History are equal to the marks obtained by her in Geography. If her total marks in these both subjects are equal to 160, how many marks did she get in Geography ?
(a) 50 (b) 62
(c) 45 (d) 40
(e) None of these

3. Arun buys a shirt for Rs. 180. He buys a kurta whose cost is $\frac{2}{3}$ of the cost of the shirt and also a saree whose cost is $2\frac{1}{2}$ times of the cost of the shirt for his wife. How much did he spend for all these items ?
- (a) Rs. 450 (b) Rs. 500
(c) Rs. 600 (d) Rs. 380
(e) None of these
4. Out of 150 donors, $\frac{1}{3}$ are men and remaining are women. Each male donor donates Rs. 2,000 per year and each female donor donates $\frac{1}{5}$ of that amount. What is the total yearly collection through donations ?
- (a) Rs. 1,50,000 (b) Rs. 1,50,250
(c) Rs. 1,40,350 (d) Rs. 1,40,350
(e) None of these
5. A 63 cm long wire is to cut into two pieces such that one piece will be $\frac{2}{5}$ as long as the other. How many centimeter will the shorter piece be ?
- (a) 16 cm (b) 45 cm
(c) 22 cm (d) 18 cm
(e) None of these
6. The width of a rectangular hall is $\frac{3}{4}$ of its length. If the area of the hall is 300 sq. m, what is the difference between its length and breath ?
- (a) 4 m (b) 5 m
(c) 15 m (d) 8 m
(e) None of these
7. Prabodh gave a portion of his money to Subodh. Subodh in turn gave one – third of what he received to Amal and Amal gave one – half of what he received to Prabir. If Prabir got Rs. 5, how much money did Prabodh have?

- (a) Rs. 520 (b) Rs. 480
 (c) Rs. 660 (d) Data is inadequate
 (e) None of these

8. $\frac{1}{5}$ th of the girls and $\frac{1}{8}$ th part of the boys participated in a social camp. Which part of the total students of the college took part ?

- (a) $\frac{13}{40}$ (b) $\frac{13}{80}$
 (c) $\frac{2}{13}$ (d) Data is inadequate
 (e) None of these

9- One – fifth of Gopal's expenditure is equal to one – half of his savings. If his monthly income is Rs. 5,600 how much amount does he save per month ?

- (a) Rs. 1,350 (b) Rs. 1,500
 (c) Rs. 1,680 (d) Rs. 1,400
 (e) None of these

10- Ragni gave $\frac{1}{2}$ part of her money to Jaya and Jaya gave $\frac{1}{4}$ part of that money to Savita. If Savita got Rs. 450 from Jaya, then how much money Jaya get from Ragni ?

- (a) Rs. 1,800 (b) Rs. 2,000
 (c) Rs. 1,860 (d) Data is inadequate
 (e) None of these

Answer Key

- | | |
|------|-------|
| 1. a | 6. b |
| 2. d | 7. d |
| 3. c | 8. c |
| 4. e | 9. e |
| 5. d | 10. a |

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