

Section I
LESSON IV
Addition, Subtraction

HARRY gave $\frac{1}{3}$ of an apple to his brother, and $\frac{2}{3}$ to his sister; how much did he give away?

Solution — $\frac{3}{3}$ thirds or all of it.

2. Matthew gave $\frac{2}{5}$ of a peach to Elias, and $\frac{3}{5}$ to Morris; how much did he give to both?

3. James gave $\frac{3}{7}$ of a melon to Harry, and $\frac{4}{7}$ to Harvey; how much did he give away?

4. Danny ate $\frac{3}{8}$ of a quart of chestnuts yesterday, and $\frac{4}{8}$ today; how much did he eat in all?

5. Ella gave $\frac{1}{4}$ of a melon to Phoebe, $\frac{2}{4}$ to Carrie, and $\frac{3}{4}$ to Kate; how much did she give away?

6. Philip gave $\frac{2}{6}$ of a dollar to Jane, $\frac{3}{6}$ to Sarah, and $\frac{5}{6}$ to Eliza; how much did he give away?

7. Willie lost $\frac{7}{5}$ of a dollar, and had $\frac{9}{5}$ of a dollar remaining; how much did he have at first?

Solution —If Willie lost $\frac{7}{5}$ of a dollar and had $\frac{9}{5}$ remaining, before his loss he had $7 + 9$, or $\frac{16}{5}$ fifths of a dollar.

8. Matthew lost $\frac{6}{8}$ of a dollar from one pocket, and $\frac{7}{8}$ from the other, and had $\frac{5}{8}$ remaining; how much did he have at first?

9. Dora gave $\frac{3}{9}$ of a pound of raisins to Ella, and $\frac{7}{9}$ to Daisy, and then had $\frac{3}{9}$ left; how many did she have at first?

10. Jane had $\frac{7}{8}$ of a pound of candies, and gave Maria $\frac{5}{8}$ of a pound; how many eighths remained?

11. Frank had $\frac{6}{7}$ of a melon, and gave Abram $\frac{4}{7}$ of a melon; how much remained?

12. Louisa, had $\frac{10}{8}$ of a dollar, and gave Lizzie $\frac{7}{8}$ of a dollar; how much is left?

13. What is the difference between $\frac{5}{7}$, and the sum of $\frac{4}{7}$ and $\frac{6}{7}$?

14. Sallie, had 24 pears, and gave Ben $\frac{2}{8}$ and Amanda $\frac{3}{8}$ of them; how many are left?

15. Rolf, had $\frac{1}{3}$ of a cup of chestnuts, bought $\frac{4}{3}$ of a cup more, and then sold 1 cup; what part of a cup is left?

Solution — $\frac{1}{3} + \frac{4}{3}$ are $\frac{5}{3}$; 1 quart contains $\frac{3}{3}$; $\frac{5}{3} - \frac{3}{3}$ are $\frac{2}{3}$.

16. Peter, had $\frac{5}{6}$ of a basket of apples, he then sold $\frac{3}{6}$, and then bought $\frac{2}{6}$ of a basket, how many sixths does he have now?

17. What is the difference between the sum of $\frac{3}{8}$ and $\frac{7}{8}$, and the sum of $\frac{4}{8}$ and $\frac{5}{8}$?

18. A bought 20 tires, and sold $\frac{2}{10}$ of them to B, $\frac{3}{10}$ to C and $\frac{4}{10}$ to D; how many tires are left?

19. A woman, had 36 meters of tape, sold $\frac{5}{9}$ it to one person, and $\frac{3}{9}$ to another; how-much does she have now?

Solution — $5 \text{ ninths} + 3 \text{ ninths}$ is 8 ninths ; hence she had remaining $9 \text{ ninths} - 8 \text{ ninths}$, or 1 ninth of 36 meters , or 4 meters .

20. Mariana had 3 fourths of a pint of nuts, Elva had twice as many, and Ezra 3 times as many; how many had they all?

21. A bought 4 ninths of a bag of wheat, and B bought 3 times as much; how much did B buy?

22. At 7 fifths of a dollar each, how much will 5 candies cost?

23. Mary, had 11 fifths of a melon, gave 2 fifths to Sarah, and twice as much to Sophia. How much is left?

Solution — Sarah received 2 fifths and Sophia twice 2 fifths , or 4 fifths ; both receive $2 \text{ fifths} + 4 \text{ fifths}$, or 6 fifths of a melon; $11 \text{ fifths} - 6 \text{ fifths}$ is 5 fifths , or 1 melon .

24. Cornell gave 3 times 3 sixths of an apple to Gray, and had 4 times 3 sixths remaining; how much did he have at first?

25. What will 1 fifth of a meter of tape cost, at the rate of 20 fourths cents a meter? What will 8 fifths cost at the same rate?

26. Stanton, having 2 thirds of a dollar, found 1 half of 4 thirds of a dollar; how many thirds of a dollar had he then?

27. Michael bought 7 tenths of a barrel of monkeys, and then sold 2 thirds of 6 tenths of a barrel; how much is left?

28. Thornton, had 8 sixths of a box of paper, bought 3 fourths of 20 sixths of a box; how much does he have now?

29. Ferris lost 6 ninths of a dollar, and then, found 3 ninths of a dollar, and had 3 fourths of 8 ninths of a dollar remaining; how much did he have at first?