

Homework & Practice 12-4

Add Fractions with Denominators of 10 and 100

Another Look!

In the morning, Duncan sold $\frac{27}{100}$ of the items in his yard sale. In the afternoon, he sold another $\frac{6}{10}$ of the items.

What fraction of the items did Duncan sell?

Find $\frac{27}{100} + \frac{6}{10}$.

Rename one of the fractions using a common denominator.

$$\frac{6}{10} \times \frac{10}{10} = \frac{60}{100}$$

Use equivalent fractions to find how many of the items Duncan sold.



Add

$$\frac{27}{100} + \frac{60}{100} = \frac{87}{100}$$

Duncan sold $\frac{87}{100}$ of the items.

For **1–15**, add the fractions.

$$1. \frac{31}{100} + \frac{4}{10} = \frac{31}{100} + \frac{\square}{100} = \frac{\square}{100} \quad 2. \frac{17}{100} + \frac{9}{10} = \frac{17}{100} + \frac{\square}{\square} = 1\frac{7}{100} \quad 3. \frac{\square}{100} + \frac{3}{\square} = \frac{2}{\square} + \frac{\square}{10} = \frac{5}{10}$$

$$4. \frac{6}{10} + \frac{39}{100}$$

$$5. \frac{7}{10} + \frac{22}{100}$$

$$6. \frac{9}{100} + \frac{3}{10} + \frac{5}{10}$$

$$7. 2\frac{4}{10} + \frac{33}{100}$$

$$8. \frac{19}{100} + \frac{21}{100} + \frac{3}{10}$$

$$9. \frac{9}{10} + \frac{30}{100}$$

$$10. \frac{1}{100} + \frac{25}{10}$$

$$11. 1\frac{3}{10} + 2\frac{8}{100}$$

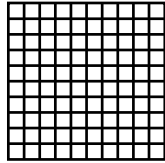
$$12. \frac{27}{100} + \frac{2}{10}$$

$$13. \frac{3}{10} + \frac{4}{10} + \frac{53}{100}$$

$$14. \frac{64}{100} + \frac{33}{100}$$

$$15. 3\frac{3}{10} + \frac{42}{100} + \frac{33}{100}$$

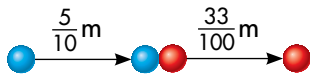
16. **MP.4 Model with Math** Cecily purchases a box of 100 paper clips. She puts $\frac{37}{100}$ of the paper clips in a jar on her desk and puts another $\frac{6}{10}$ in her drawer at home. Shade a grid that shows how many of the paper clips are in Cecily's jar and drawer, then write the fraction the grid represents.



17. Robyn sells 100 tickets to the fourth-grade play. The table shows how many of each ticket she sold. What fraction of the tickets were adult and student tickets?

Ticket	Number
Adult	$\frac{38}{100}$
Child	$\frac{22}{100}$
Student	$\frac{4}{10}$

18. **Math and Science** Balls colliding on a pool table are an example of how energy changes when objects collide. When two balls collide, the first ball loses speed and the second ball moves. What is the combined distance the two balls traveled?



19. **Higher Order Thinking** Alecia walked $\frac{3}{10}$ of a mile from school, stopped at the grocery store on the way, then walked another $\frac{4}{10}$ of a mile home. Georgia walked $\frac{67}{100}$ of a mile from school to her home. Which of the girls lives farther from school? Explain.

Common Core Assessment

20. Regina kept a reading log of how much of her 100-page book she read each day. She read $\frac{33}{100}$ of the book on Monday, $\frac{4}{10}$ of the book on Tuesday, and another 35 pages on Wednesday. Did Regina fill out her reading log correctly? Explain.



Use what you know about fraction meanings to find the number of pages.