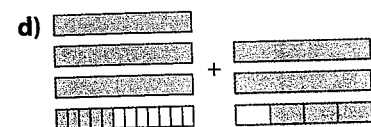
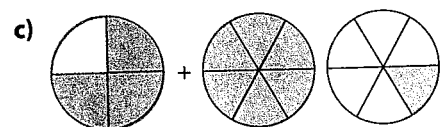
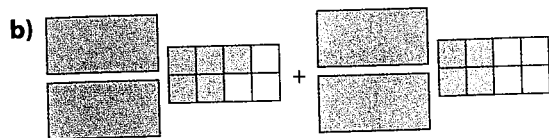
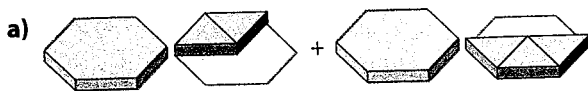


Practise

For help with #1 to #3, refer to Example 1 on pages 116–117.

For help with #4 to #6, refer to Example 2 on pages 118–119.

1. Write and solve the addition statement for each diagram.



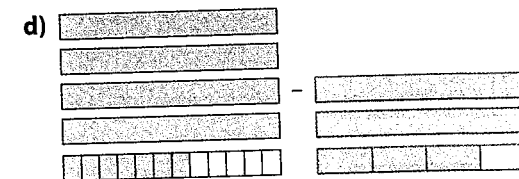
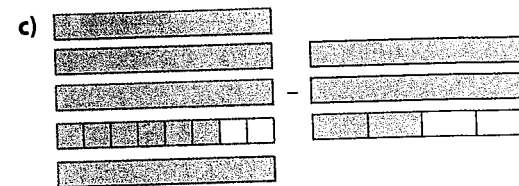
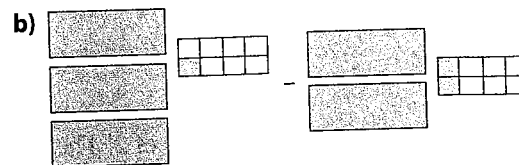
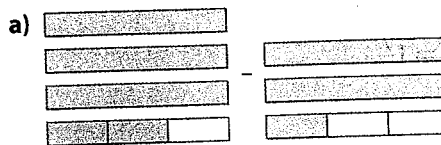
2. Determine the sum. Express your answer as a mixed number in lowest terms. Estimate to check if your answer is reasonable.

- a) $3\frac{1}{8} + 5\frac{5}{8}$
 b) $2\frac{2}{5} + 1\frac{4}{5}$
 c) $\frac{12}{7} + \frac{7}{5}$
 d) $3\frac{1}{2} + 3\frac{2}{5}$
 e) $1\frac{3}{4} + 3\frac{5}{6}$
 f) $\frac{7}{3} + 2\frac{2}{5}$

3. Add. Write your answers in lowest terms.

- a) $2\frac{5}{6} + 3\frac{1}{3}$
 b) $1\frac{2}{3} + 1\frac{3}{4}$
 c) $2\frac{1}{7} + 4\frac{2}{7}$
 d) $4\frac{3}{10} + 7\frac{1}{2}$

4. Write and solve the subtraction statement for each diagram.



5. Subtract. Express your answer as a mixed number in lowest terms. Estimate to check if your answer is reasonable.

- a) $4\frac{4}{9} - 3\frac{1}{9}$ b) $3\frac{1}{4} - 1\frac{1}{4}$
 c) $5\frac{2}{7} - 1\frac{5}{7}$ d) $6\frac{7}{10} - 3\frac{2}{5}$
 e) $5\frac{5}{9} - 2\frac{2}{3}$ f) $\frac{7}{3} - 1\frac{1}{5}$

6. Subtract. Write your answers in lowest terms.

- a) $2\frac{4}{5} - 1\frac{3}{5}$
 b) $4\frac{3}{4} - 2\frac{1}{3}$
 c) $2\frac{1}{10} - \frac{3}{5}$
 d) $3\frac{4}{5} - 1\frac{3}{7}$

Apply

7. The painters finished painting $1\frac{3}{4}$ rooms before lunch. After lunch, they finished another $2\frac{1}{4}$ rooms. How many rooms in total did they paint?
8. Leanne is learning a new dance routine. On Saturday, she rehearsed for $1\frac{2}{3}$ h. On Sunday, she rehearsed for $2\frac{1}{4}$ h. How long did Leanne spend rehearsing this weekend?
9. After $2\frac{2}{5}$ h, a baseball game was almost over when the score became tied. The extra innings extended the total playing time to $4\frac{1}{4}$ h. How long did the extra innings take?
10. Ben ran $1\frac{5}{12}$ laps for gym class. Mei ran $\frac{18}{12}$ laps. Ben said he ran farther than Mei. Who ran farther and by how much?
11. **Competency Check** After dinner, $1\frac{1}{2}$ ham sandwiches and $2\frac{3}{4}$ egg salad sandwiches are left. Jeremy and his sister want to use 4 of the leftover sandwiches for their lunches tomorrow. What advice would you give them to prepare for their lunches? How would you justify your advice in a way they can understand?
12. Karen goes to swimming practice for $1\frac{1}{3}$ h each day. In the morning, she has $\frac{2}{3}$ h of practice. How many hours of practice does she have in the afternoon?
13. After Jack's party, $2\frac{3}{4}$ bottles of juice are left. He wants to take $\frac{1}{2}$ a bottle on a hike the next day, but his family drinks $2\frac{1}{4}$ bottles before he can tell them. Will Jack have enough to take on his hike? Justify your answer using two different methods.
14. A large drink cooler has enough sports drink to fill $9\frac{3}{4}$ drinking bottles for a team of soccer players. Halfway through practice, the players drink $4\frac{7}{8}$ bottles of sports drink. Will there be enough sports drink in the cooler to finish the soccer practice? Justify your answer.

