Module 6   **Computational Fluency of Fractions**
Lesson 5   **Multiplying Fractions**

1. Madeleine filled $\frac{1}{2}$ of the balloons for a dance with helium. She put $\frac{3}{10}$ of the helium balloons in the main ballroom. What fraction of all the balloons was in the main ballroom and was filled with helium? Use the models provided.

Find the product.

2. $\frac{4}{5} \times \frac{3}{8}$

3. $3\frac{2}{5} \times \frac{5}{6}$

4. $24 \times \frac{5}{8}$

5. $\frac{7}{8} \times \frac{4}{9}$

6. $4\frac{1}{6} \times \frac{4}{5}$

7. $10\frac{1}{2} \times 2\frac{2}{3}$

8. Jacque biked $\frac{4}{5}$ of the biking trail near her house. For $\frac{5}{8}$ of the trip, she listened to music on her headphones. On what fraction of the biking trail did Jacque listen to music?

9. Morgan counted 42 designs that were submitted for the class newsletter. Five-sixths of the designs included the school mascot. How many designs had the school mascot?

10. The library has 30 chairs in which to study and to read. Two-thirds of the chairs are taken. How many chairs are *available*?

11. Monette painted $\dfrac{3}{4}$ of her seashell collection. One-third of the painted shells also had glitter sprinkled on them. If Monette had 60 seashells, how many of them were both painted and glittered?

12. Jose is in charge of the yearbook. He knows that $\dfrac{1}{10}$ of the yearbook pages are devoted to extracurricular activities and of those, $\dfrac{5}{6}$ are for sports. What fraction of the yearbook pages are for sports? How many pages will be sports pages if the yearbook has 240 pages?

13. Coach Allen calculated that his team made $\dfrac{11}{15}$ of the shots they attempted in the game last Friday and that $\dfrac{6}{7}$ of those were two-pointers. What fraction of all the shots attempted scored two points each for the team?

14. $\dfrac{4}{5} \times 1\dfrac{1}{5}$

15. $2\dfrac{1}{5} \times 1\dfrac{7}{8}$

16. $2\dfrac{1}{4} \times \dfrac{2}{3}$

17. $\left(\dfrac{2}{3}\right)^2$