

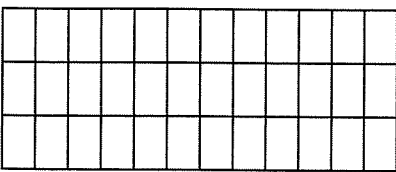
Name: _____

Practice & Problem Solving

Scan for Multimedia 

In 19 and 20, find each product. Shade the model to help solve.

19. $\frac{1}{3} \times \frac{5}{6}$ 

20. $\frac{2}{3} \times \frac{1}{12}$ 

In 21–28, find each product.

21. $\frac{7}{8} \times \frac{1}{2}$ 22. $\frac{2}{5} \times \frac{1}{12}$ 23. $\frac{5}{7} \times \frac{7}{9}$ 24. $\frac{1}{2} \times \frac{3}{4}$
 25. $\frac{1}{4} \times \frac{7}{8}$ 26. $\frac{5}{6} \times \frac{9}{10}$ 27. $\frac{1}{4} \times \frac{1}{8}$ 28. $\frac{1}{3} \times \frac{3}{7}$

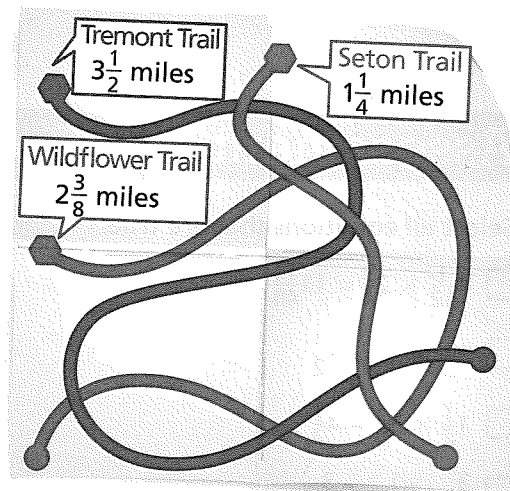
In 29–36, estimate the product. Then find each product.

29. $2\frac{1}{6} \times 4\frac{1}{2}$ 30. $\frac{3}{4} \times 8\frac{1}{2}$ 31. $1\frac{1}{8} \times 3\frac{1}{3}$ 32. $3\frac{1}{5} \times \frac{2}{3}$
 33. $3\frac{1}{4} \times 6$ 34. $5\frac{1}{3} \times 3$ 35. $2\frac{3}{8} \times 4$ 36. $4\frac{1}{8} \times 5\frac{1}{2}$

In 37 and 38, use the diagram at the right.

37. Linda walked $\frac{3}{4}$ of the length of the Tremont Trail before stopping for a rest. How far had Linda walked on the trail?

38. The city plans to extend the Wildflower Trail to make it $2\frac{1}{2}$ times its current length in the next 5 years. How long will the Wildflower Trail be at the end of 5 years?



39. The world's smallest gecko is $\frac{3}{4}$ inch long. An adult male Western Banded Gecko is $7\frac{1}{3}$ times as long. How long is an adult male Western Banded Gecko?



41. The Akashi-Kaikyo Bridge in Japan is about $1\frac{4}{9}$ times as long as the Golden Gate Bridge in San Francisco. The Golden Gate Bridge is about 9,000 feet long. About how long is the Akashi-Kaikyo Bridge?

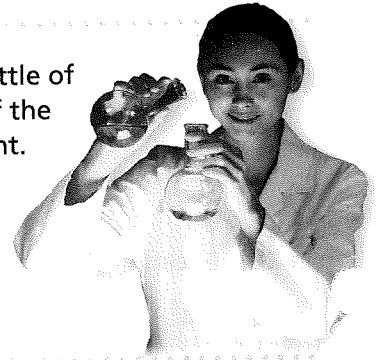
43. **Be Precise** To amend the U.S. Constitution, $\frac{3}{4}$ of the 50 states must approve the amendment. If 35 states approve an amendment, will the Constitution be amended?

45. In the voting for City Council Precinct 5, only $\frac{1}{2}$ of all eligible voters cast votes. What fraction of all eligible voters voted for Shelley? Morgan? Who received the most votes?

40. **Higher Order Thinking** In Ms. Barclay's classroom, $\frac{2}{5}$ of the students play chess. Of the students who play chess, $\frac{5}{6}$ also play sudoku. If there are 30 students in Ms. Barclay's class, how many play chess and sudoku?

42. If $\frac{7}{8}$ is multiplied by $\frac{4}{5}$, will the product be greater than either of the two factors? Explain.

44. A scientist had $\frac{3}{4}$ of a bottle of a solution. She used $\frac{1}{6}$ of the solution in an experiment. How much of the bottle did she use?



Candidate	Fraction of Votes Received
Shelley	$\frac{3}{10}$
Morgan	$\frac{5}{8}$

Assessment Practice

46. Select all equations that are true.

- $4\frac{1}{12} \times 2\frac{3}{4} = 11\frac{11}{48}$
- $5\frac{1}{2} \times 5 = 25\frac{1}{2}$
- $1\frac{1}{2} \times 3\frac{1}{5} = 4\frac{1}{2}$
- $\frac{3}{4} \times 8\frac{1}{5} = 6\frac{3}{20}$
- $2\frac{1}{5} \times 6\frac{1}{4} = 13\frac{3}{4}$

47. Select all the expressions that have $\frac{3}{4}$ as a product.

- $\frac{1}{2} \times \frac{1}{2}$
- $\frac{9}{10} \times \frac{5}{6}$
- $\frac{7}{8} \times \frac{6}{7}$
- $\frac{3}{4} \times \frac{3}{4}$
- $\frac{1}{4} \times \frac{1}{2}$

