

# Estimate Products of Fractions

## Independent Practice

Estimate each product. Use a bar diagram if needed. (Examples 1–4)


1.  $\frac{1}{4} \times 21 \approx$  \_\_\_\_\_

how  
your  
work

2.  $\frac{5}{7}$  of 22  $\approx$  \_\_\_\_\_

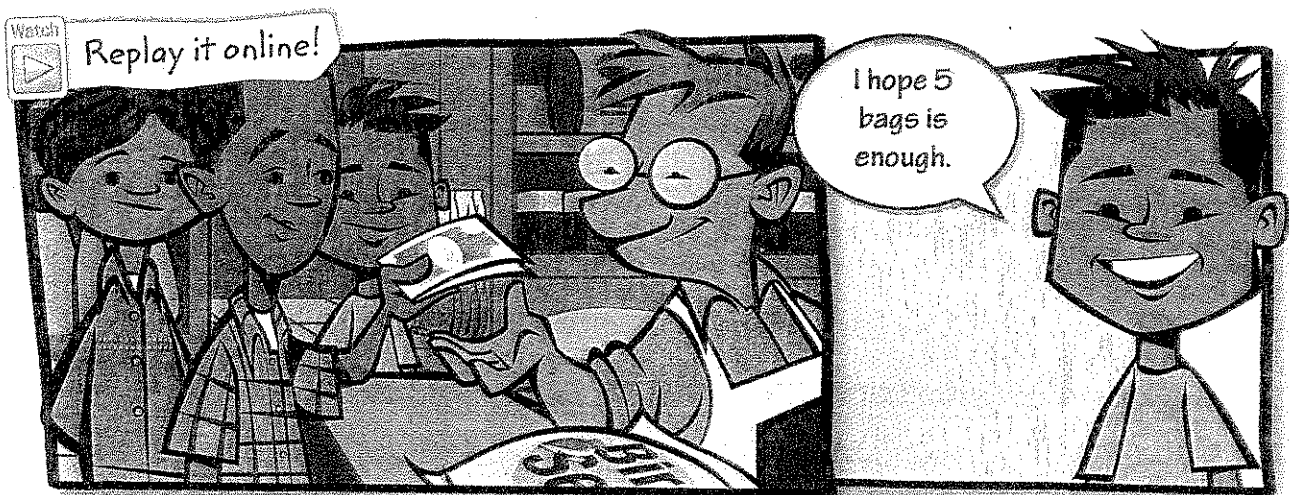
3.  $\frac{5}{7} \times \frac{1}{9} \approx$  \_\_\_\_\_

4.  $4\frac{1}{3} \times 2\frac{3}{4} \approx$  \_\_\_\_\_

5.  Cyrus is inviting 11 friends over for pizza. He would like to have enough pizza so each friend can have  $\frac{1}{4}$  of a pizza. About how many pizzas should he order? (Example 5)

6. Hakeem's front porch measures  $9\frac{3}{4}$  feet by 4 feet. Estimate the area of his front porch. (Example 5)

7.  **Use Math Tools** Refer to the graphic novel frame for Exercises a–b.



- a. If each bag holds  $3\frac{3}{4}$  pounds, estimate how many pounds of birdseed Elisa, Luis, and Dwayne purchased. \_\_\_\_\_
- b. Suppose each bag costs \$14.99. Estimate the total cost of 5 bags. \_\_\_\_\_

# Guided Practice

Estimate each product. Use a bar diagram if needed. (Examples 1–4)

1.  $\frac{1}{8} \times 15 \approx$  \_\_\_\_\_

Show your work.

2.  $\frac{2}{5}$  of 26  $\approx$  \_\_\_\_\_

3.  $\frac{1}{5} \times \frac{8}{9} \approx$  \_\_\_\_\_

4.  $6\frac{2}{3} \times 4\frac{1}{5} \approx$  \_\_\_\_\_

5. A border is made of  $32\frac{2}{3}$  bricks that are  $1\frac{1}{6}$  feet long. About how long is the border? (Example 5)

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.....

6. A kitchen measures  $24\frac{1}{6}$  feet by  $9\frac{2}{3}$  feet. Estimate the area of the kitchen. (Example 5)

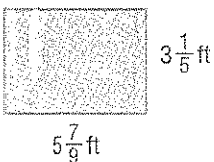
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18.  $\frac{2}{3} \times 10 \approx$  \_\_\_\_\_

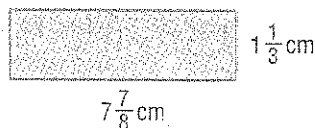
19.  $\frac{3}{8} \times 4 \approx$  \_\_\_\_\_

Estimate the area of the each rectangle.

20.



21.



22. Tara would like to finish  $\frac{2}{5}$  of her book by next Friday. If the book has 203 pages, about how many pages does she need to read? \_\_\_\_\_

23. Javier is organizing his movie collection. He discovers that  $\frac{5}{8}$  of his movies are action movies. If he has 46 movies, about how many are action movies? \_\_\_\_\_