

5th Grade Math

Week of March 8 - March 12, 2021



Name _____

* Please do not complete until advised by teacher*

Find each product.

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

2. $\frac{9}{10} \times \frac{2}{3}$

3. What is the product of $\frac{5}{8} \times \frac{3}{4}$?

a. $\frac{8}{32}$

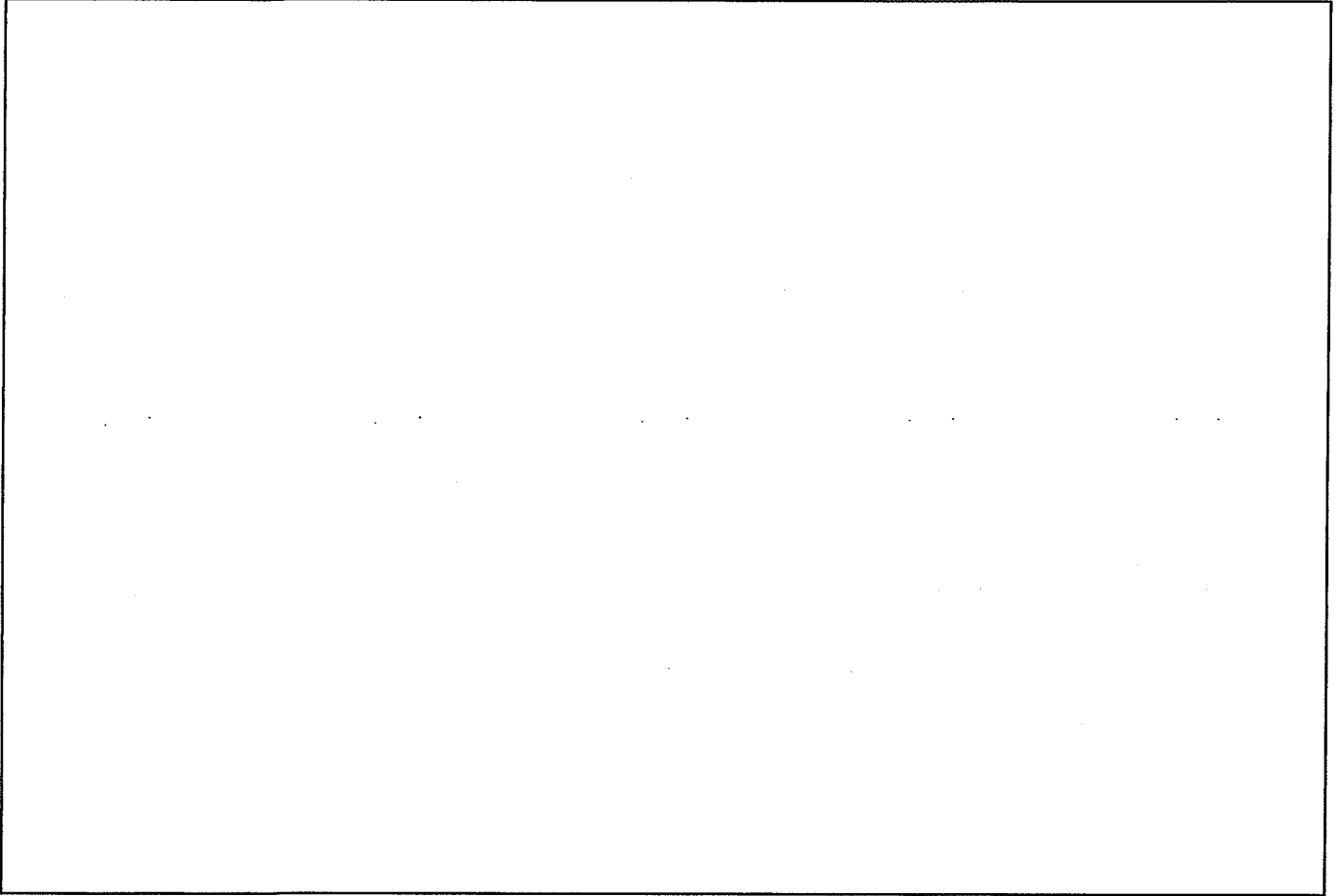
b. $\frac{15}{32}$

c. $\frac{8}{12}$

d. $\frac{15}{12}$

March 8, 2021

Ms. Rehm gave each student half of a sheet of paper. Then she asked the students to color one fourth of their pieces of paper. What part of the original sheet did the students color?

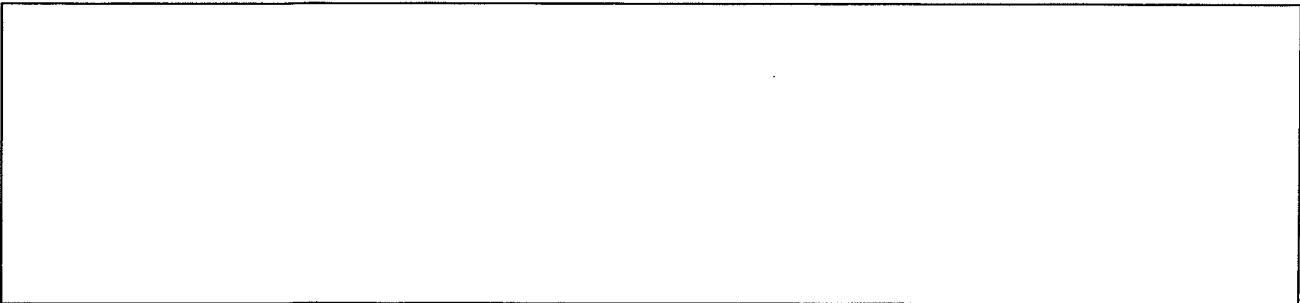


Answer (with unit): _____

Equation that matches your work:



Explain your thinking:



Additional Practice 8-5
Multiply Two Fractions

Another Look!

Find $\frac{3}{4} \times \frac{2}{3}$.

You can multiply the numerators and denominators to find the product.



Step 1

Multiply the numerators, and then multiply the denominators.

$$\frac{3 \times 2}{4 \times 3} = \frac{6}{12} = \frac{1}{2}$$

Step 2

Check that the answer is reasonable.

Since $\frac{1}{2}$ is less than 1, the answer is reasonable.

Leveled Practice In 1–24, find each product.

1. $\frac{7}{8} \times \frac{2}{3} = \frac{\square \times 2}{8 \times \square} = \frac{\square}{24} = \frac{\square}{\square}$

2. $\frac{3}{4} \times \frac{5}{9} = \frac{\square \times 5}{4 \times \square} = \frac{15}{\square} = \frac{\square}{\square}$

3. $\frac{4}{5} \times \frac{1}{8} = \frac{\square \times 1}{5 \times \square} = \frac{\square}{\square} = \frac{\square}{\square}$

4. $\frac{4}{7} \times \frac{1}{2} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square} = \frac{\square}{\square}$

5. $\frac{3}{5} \times \frac{3}{7} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$

6. $\frac{4}{9} \times \frac{2}{3} = \frac{\square \times \square}{\square \times \square} = \frac{\square}{\square}$

7. $\frac{11}{12} \times \frac{2}{5}$

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

9. $\frac{1}{6} \times \frac{2}{3}$

10. $\frac{3}{4}$ of $\frac{1}{2}$

11. $\frac{6}{7} \times \frac{1}{5}$

12. $\frac{2}{3} \times \frac{5}{9}$

13. $\frac{1}{3}$ of $\frac{3}{10}$

14. $\frac{4}{5}$ of $\frac{5}{6}$

15. $\frac{3}{7} \times \frac{2}{7}$

16. $\frac{1}{2}$ of $\frac{2}{3}$

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

18. $\frac{3}{10} \times \frac{3}{10}$

19. $(\frac{1}{2} + \frac{1}{3}) \times \frac{8}{9}$

20. $(\frac{2}{3} - \frac{1}{6}) \times \frac{11}{12}$

21. $(\frac{3}{5} + \frac{1}{4}) \times \frac{2}{3}$

22. $\frac{7}{8} \times (\frac{1}{3} + \frac{1}{3})$

23. $(\frac{11}{12} - \frac{5}{6}) \times \frac{3}{4}$

24. $\frac{1}{3} \times (\frac{9}{10} - \frac{3}{5})$

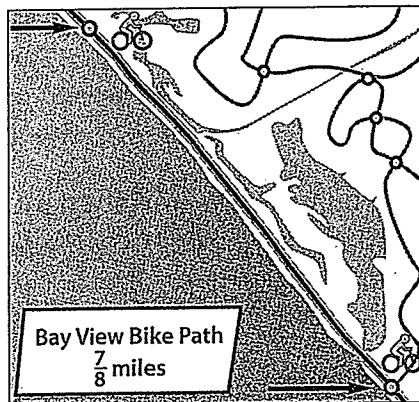
HW *



25. A full bottle holds $\frac{1}{4}$ gallon of juice. If $\frac{3}{5}$ of the juice has been poured out, how much juice is left in the bottle?

26. Natasha has 3 pounds of apples and $2\frac{1}{2}$ pounds of grapes. If she gives $\frac{1}{3}$ of her apples to Silvie, how many pounds of apples does she have left?

27. Keyshia is riding her bike on Bay View bike path. Keyshia's bike got a flat tire $\frac{2}{3}$ of the way down the path and she had to stop. How far did Keyshia ride?



28. Of the apps on Juan's tablet, $\frac{3}{4}$ are gaming apps, and $\frac{5}{7}$ of the gaming apps are action games. What fraction of the apps on Juan's tablet are action games?

29. **Higher Order Thinking** In Mrs. Hu's classroom, $\frac{4}{5}$ of the students have a dog as a pet. Of the students who have a dog as a pet, $\frac{2}{3}$ also have a cat as a pet. If there are 45 students in her class, how many have both a dog and a cat as pets?

30. Patrick walks $\frac{9}{10}$ mile to the gym. How far has he walked when he has covered $\frac{2}{3}$ of the distance to the gym?

31. **Construct Arguments** Which is greater, $\frac{4}{7} \times \frac{1}{4}$ or $\frac{4}{7} \times \frac{1}{6}$? Explain.

 **Assessment Practice**

32. Choose all the multiplication sentences that have $\frac{5}{6}$ as the missing part.

- $\square \times \frac{2}{3} = \frac{5}{9}$
 $\frac{2}{3} \times \square = \frac{7}{9}$
 $\frac{11}{12} \times \frac{10}{11} = \square$
 $\square \times \frac{1}{5} = \frac{1}{6}$
 $\frac{3}{4} \times \square = \frac{5}{8}$

33. Choose all the expressions that have $\frac{8}{15}$ as a product.

- $\frac{2}{3} \times \frac{4}{5}$
 $\frac{8}{9} \times \frac{3}{5}$
 $\frac{3}{15} \times \frac{5}{15}$
 $\frac{7}{10} \times \frac{1}{5}$
 $\frac{11}{15} \times \frac{8}{11}$

Find the area of each rectangle with the following measurements.

1. length = $\frac{3}{10}$ ft

width = $\frac{1}{3}$ ft

2. length = $\frac{2}{3}$ ft

width = $\frac{3}{4}$ ft

3. Juno calculated the area of a square to be $\frac{4}{9}$ square yard. Which shows the side length of the square?

a. $\frac{2}{9}$

b. $\frac{4}{9}$

c. $\frac{2}{3}$

d. $\frac{8}{9}$

March 9, 2021

On Dan's eReader $\frac{2}{3}$ of the books are fiction. Of the fiction books, $\frac{4}{5}$ are mysteries. What fraction of the books on Dan's eReader are mysteries?

Answer (with unit): _____

Equation that matches your work:

Explain your thinking:

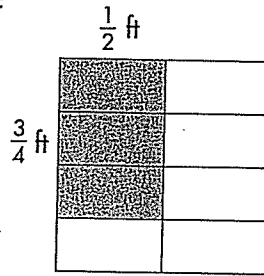
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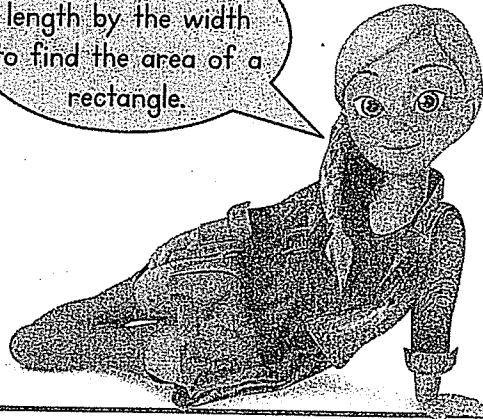
Additional Practice 8-6 Area of a Rectangle

Another Look!

Cole wants to cover the back of a picture frame with colorful paper. What is the area of the back of Cole's picture frame?



Multiply the length by the width to find the area of a rectangle.



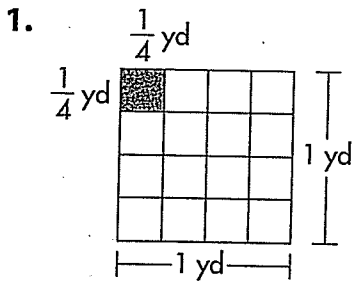
Multiply to find the area of the back of the picture frame.

$$A = \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$

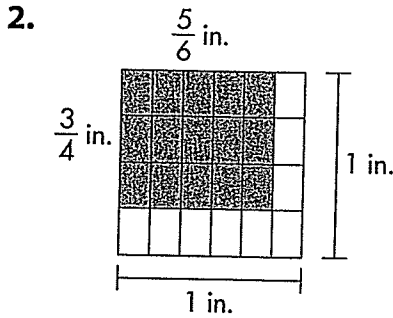
The area of the back of Cole's picture frame is $\frac{3}{8}$ square foot.

In 1-5, find each area.

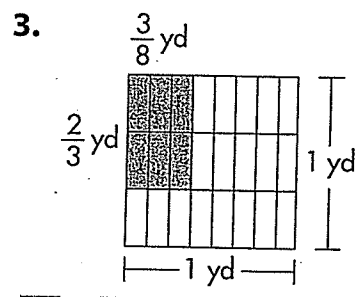
HW* 1-8, 9-10, 12-13



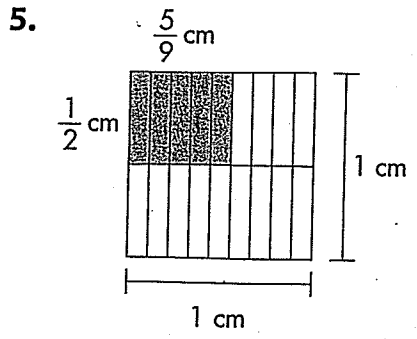
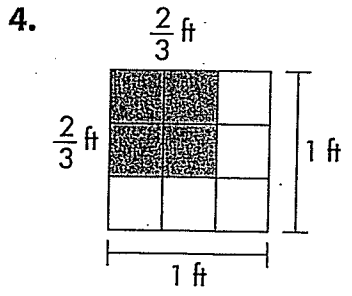
$$\frac{1}{4} \times \frac{1}{4} = \frac{\square}{\square} \text{ sq yd}$$



$$\frac{\square}{\square} \times \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} \text{ sq in.}$$



$$\frac{\square}{\square} \times \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} \text{ sq yd}$$



6. Find the area of a square with side length $\frac{3}{4}$ yard.

7. Find the area of a rectangle with side lengths $\frac{5}{4}$ feet and $\frac{5}{3}$ feet.

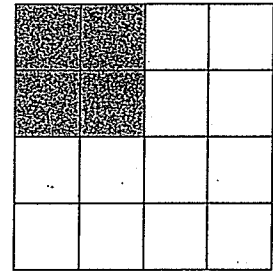
8. Find the area of a square with side length $\frac{7}{12}$ inch.



9. A crate is $\frac{3}{4}$ yard long and $\frac{2}{3}$ yard wide. The crate is also 2 feet tall. What is the area of the top of the crate?

10. Mike is making macaroni salad. For each bowl of macaroni salad, he needs $\frac{1}{3}$ cup of macaroni. How many cups of macaroni will he use if he makes 27 bowls of macaroni salad?

11. **Higher Order Thinking** Dorothy is installing purple and white tile in her kitchen. She made a diagram of the layout showing the area of both colors. Write two expressions that describe the area of the purple tile.



12. **Construct Arguments** Corey and Veronica each multiplied $\frac{1}{2} \times \frac{5}{2}$. Corey got $\frac{6}{4}$ and Veronica got $\frac{5}{4}$. Which student found the correct answer? Explain.

13. Colby attends barber school. So far, he has completed 612 hours. If Colby attended school the same number of hours each day for a total of 68 days, how many hours did he attend school each day?

Assessment Practice

14. Tomás found the area of a rectangle to be $\frac{1}{6}$ square inch. Which could be the side lengths of the rectangle?

- (A) $\frac{1}{4}$ inch and $\frac{2}{3}$ inch
- (B) $\frac{1}{3}$ inch and $\frac{1}{3}$ inch
- (C) $\frac{1}{6}$ inch and $\frac{1}{6}$ inch
- (D) $\frac{1}{2}$ inch and $\frac{1}{12}$ inch

15. Jackie found the area of a square to be $\frac{25}{16}$ square feet. Which shows the side length of the square?

- (A) $\frac{5}{4}$ feet
- (B) $\frac{5}{8}$ foot
- (C) $\frac{5}{16}$ foot
- (D) $\frac{25}{4}$ feet

Wednesday, 3/10/21

Exit Ticket Lesson 8-7 Day 1

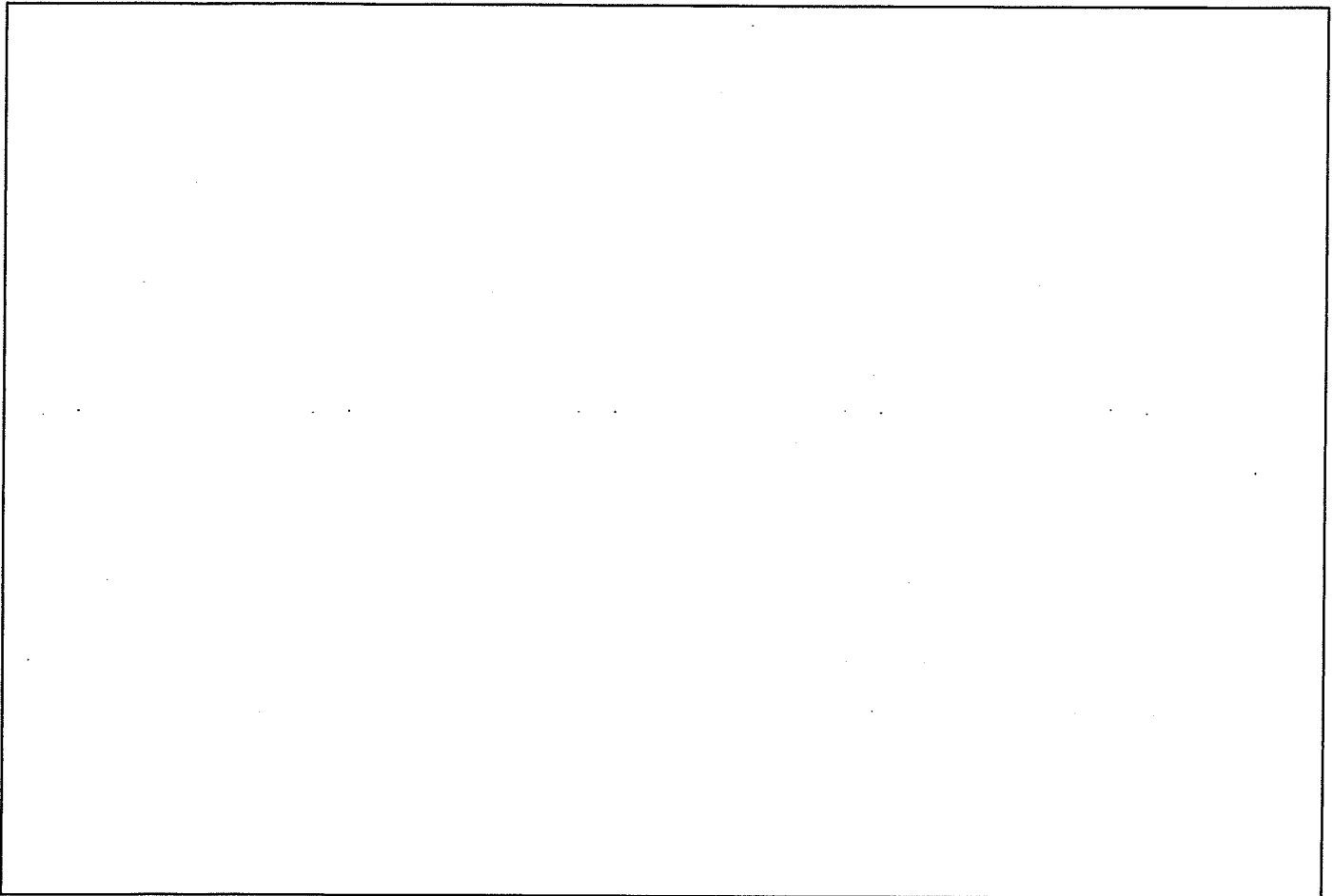
Find each product.

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

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

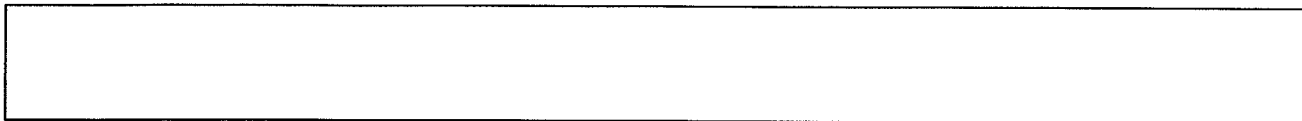
March 10, 2021

A rectangular poster is $\frac{1}{4}$ yard wide and $\frac{3}{4}$ yard tall. What is its area?

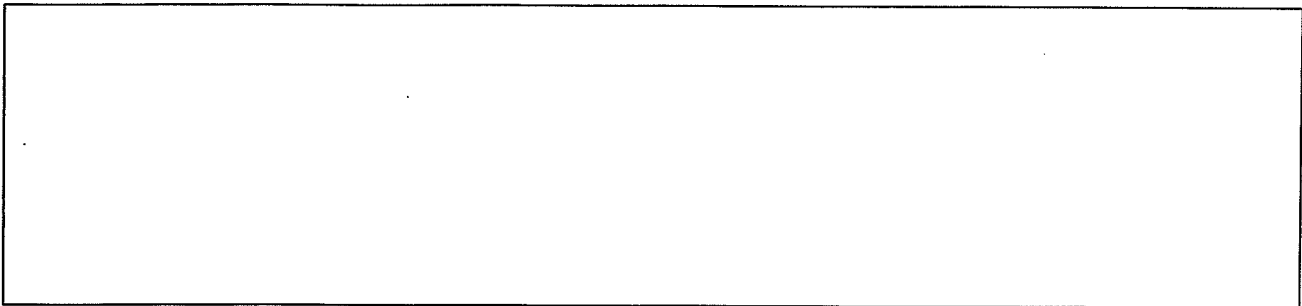


Answer (with unit): _____

Equation that matches your work:



Explain your thinking:



Additional Practice 8-7
Multiply Mixed Numbers

Another Look!

Millwood City is constructing a new highway through town. The construction crew can complete $5\frac{3}{5}$ miles of road each month. How many miles will they complete in $6\frac{1}{2}$ months?

Step 1

Round the mixed numbers to whole numbers to estimate the product.

$$\begin{array}{r} 5\frac{3}{5} \times 6\frac{1}{2} \\ \downarrow \quad \downarrow \\ 6 \times 7 = 42 \end{array}$$

So, they can complete about 42 miles.

Step 2

Rename the mixed numbers.

$$5\frac{3}{5} \times 6\frac{1}{2} = \frac{28}{5} \times \frac{13}{2}$$

Step 3

Multiply the numerators and the denominators.

$$\frac{28}{5} \times \frac{13}{2} = \frac{364}{10} = 36\frac{2}{5}$$

The construction crew will complete $36\frac{2}{5}$ miles of highway in $6\frac{1}{2}$ months.

Step 4

Check for reasonableness.

Compare your product to your estimate.

$36\frac{2}{5}$ is close to 42, so the answer is reasonable.

In 1–4, estimate the product. Then complete the multiplication.

1. $1\frac{1}{4} \times 2\frac{1}{4} = \frac{\square}{4} \times \frac{9}{\square} = \frac{5 \times \square}{\square \times 4} = \frac{45}{\square} = \square \frac{\square}{16}$

2. $3\frac{1}{2} \times 2\frac{2}{3} = \frac{7}{\square} \times \frac{\square}{3} = \frac{\square \times 8}{2 \times \square} = \frac{\square}{6} = \square \frac{1}{\square}$

3. $5\frac{1}{3} \times 2\frac{3}{4} = \frac{\square}{3} \times \frac{11}{\square} = \square$

4. $4\frac{1}{5} \times 2\frac{1}{4} = \frac{\square}{5} \times \frac{\square}{4} = \square$

Wed 1-12

Thurs 13-21

In 5–12, estimate the product. Then find each product.

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

6. $3\frac{2}{3} \times 2\frac{3}{4}$

7. $\frac{7}{8} \times 4\frac{1}{6}$

8. $1\frac{1}{2} \times 2\frac{3}{4}$

9. $8\frac{1}{10} \times \frac{2}{3}$

10. $4\frac{1}{12} \times 7$

11. $3\frac{4}{5} \times 7\frac{1}{2}$

12. $6\frac{2}{3} \times 4\frac{4}{5}$



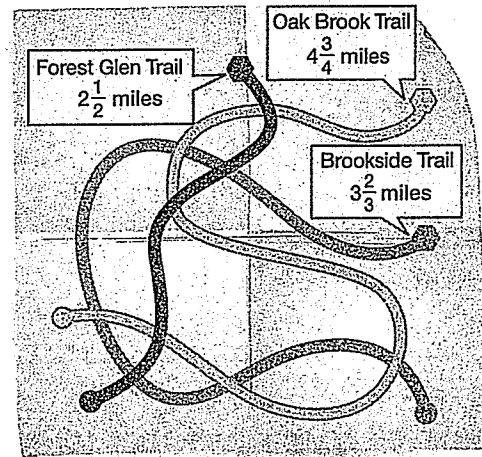
13. How can you use estimation to find $9\frac{1}{2} + 9\frac{1}{2} + 9\frac{1}{2} + 9\frac{1}{2} + 9\frac{1}{2}$?

14. A model of a house is built on a base that measures $7\frac{3}{4}$ in. wide and $9\frac{1}{5}$ in. long. What is the area of the model house's base?

15. **Algebra** Write a mixed number for t so that $2\frac{3}{4} \times t$ is more than $2\frac{3}{4}$.

16. **Vocabulary** Give an example of a benchmark fraction and an example of a mixed number.

17. **Make Sense and Persevere** Leon and Marisol biked the Brookside Trail to the end and back. Then they biked the Forest Glen Trail to the end and back before stopping to eat. How far did they bike before they stopped to eat?



18. The One World Trade Center in New York City is about $3\frac{1}{5}$ times as tall as the Washington Monument in Washington, D.C. The Washington Monument is 555 feet tall. About how tall is the One World Trade Center?

19. **Higher Order Thinking** Lucie can walk about $3\frac{4}{5}$ miles each hour. About how far can she walk in 2 hours 45 minutes?

Assessment Practice

20. Choose all that are true.

- $\frac{1}{4} \times 1\frac{7}{8} = \frac{15}{32}$
- $2\frac{1}{2} \times 2\frac{1}{2} = 5\frac{1}{2}$
- $3\frac{1}{5} \times 2\frac{1}{4} = 6\frac{2}{5}$
- $4\frac{1}{2} \times 1\frac{1}{3} = 6$
- $5\frac{1}{4} \times \frac{1}{2} = 2\frac{5}{8}$

21. Choose all that are true.

- $4\frac{1}{12} \times \frac{3}{4} = \frac{49}{16}$
- $8\frac{5}{6} \times 2 = 17\frac{2}{3}$
- $5\frac{1}{2} \times 5\frac{1}{2} = 30\frac{1}{4}$
- $9\frac{1}{5} \times \frac{3}{5} = 9\frac{4}{5}$
- $6\frac{3}{4} \times 3\frac{1}{4} = 19$

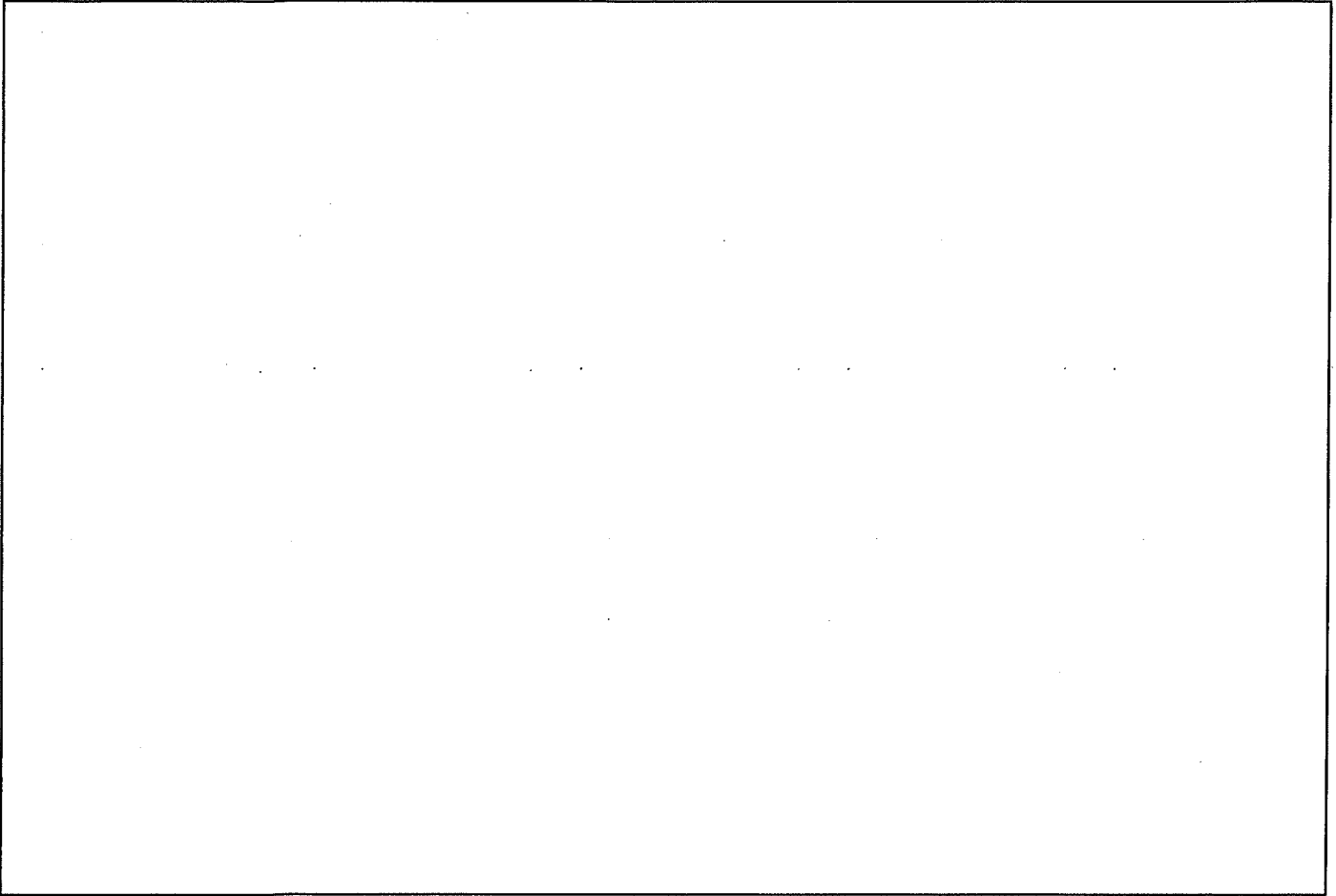
Find each product.

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

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

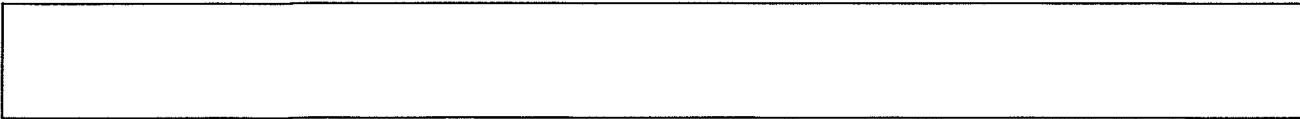
March 11, 2021

Emilio needs to know how much area to clear for his son's square sandbox. Each side of the sandbox is $\frac{3}{4}$ yard. Find the area that the sandbox will cover.

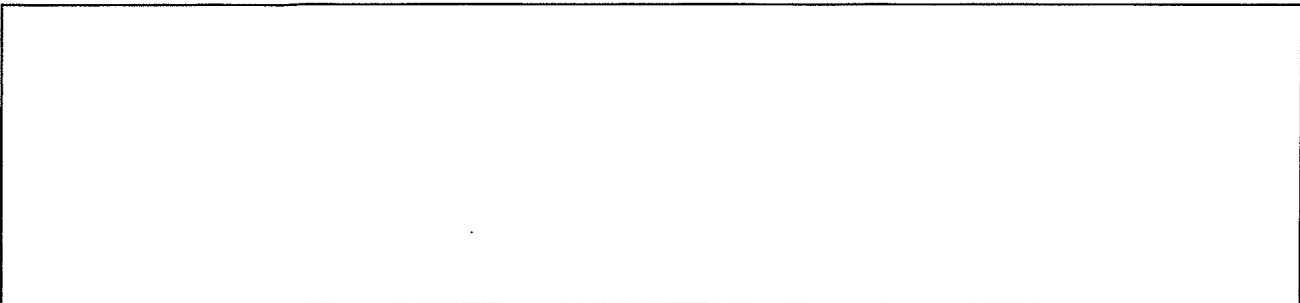


Answer (with unit): _____

Equation that matches your work:



Explain your thinking:



Enrichment

Multiply It!

Directions: Solve each problem using the standard algorithm.

① $452 \times 36 =$

② $624 \times 45 =$

③ $537 \times 52 =$

④ $713 \times 22 =$

🔍 Explain your reasoning for solving one of the problems above.

Name: _____

Date: _____

Multi-Digit Multiplying


Directions: Solve each problem using the standard algorithm.

① $32 \times 22 =$

② $314 \times 12 =$

③ $456 \times 24 =$

④ $864 \times 38 =$

 Explain your reasoning for solving one of the problems above.

Enrichment

Enrichment

