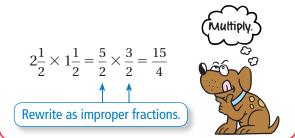
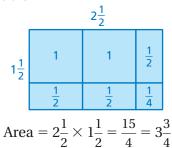
REVIEW: Multiplying Mixed Numbers

Key Concept and Vocabulary



Visual Model



Skill Examples

1.
$$3\frac{1}{2} \times 2\frac{1}{3} = \frac{7}{2} \times \frac{7}{3} = \frac{49}{6} = 8\frac{1}{6}$$

2.
$$1\frac{3}{4} \cdot 4\frac{1}{2} = \frac{7}{4} \cdot \frac{9}{2} = \frac{63}{8} = 7\frac{7}{8}$$

3.
$$2\frac{2}{5} \times 1\frac{2}{3} = \frac{12}{5} \times \frac{5}{3} = \frac{60}{15} = 4$$

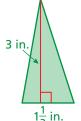
4.
$$\left(1\frac{1}{2}\right)\left(1\frac{1}{2}\right) = \left(\frac{3}{2}\right)\left(\frac{3}{2}\right) = \frac{9}{4} = 2\frac{1}{4}$$

Application Example

5. Find the area of the triangle.

Area =
$$\frac{1}{2} \cdot 1\frac{1}{2} \cdot 3$$

= $\frac{1}{2} \cdot \frac{3}{2} \cdot \frac{3}{1} = \frac{9}{4} = 2\frac{1}{4}$



 $\frac{1}{4}$ The area is $2\frac{1}{4}$ square inches.

PRACTICE MAKES PURR-FECT

Check your answers at BigIdeasMath.com. -

Find the product. Write your answer as a whole number or mixed number in simplified form.

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

6.
$$2\frac{1}{3} \times 1\frac{1}{3} =$$
 7. $4\frac{2}{3} \times 1\frac{1}{2} =$ **8.** $1\frac{1}{2} \times 3 =$ **9.** $5\frac{1}{6} \times \frac{1}{3} =$

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

9.
$$5\frac{1}{6} \times \frac{1}{3} =$$

10.
$$\frac{3}{4} \cdot 3\frac{1}{2} =$$

11.
$$5 \cdot 4\frac{1}{2} = \underline{\hspace{1cm}}$$

12.
$$2^{\frac{1}{2}} \cdot \frac{7}{2} =$$

10.
$$\frac{3}{4} \cdot 3\frac{1}{2} =$$
 _____ **11.** $5 \cdot 4\frac{1}{2} =$ ____ **12.** $2\frac{1}{7} \cdot \frac{7}{15} =$ _____ **13.** $1\frac{3}{5} \cdot \frac{3}{8} =$ _____

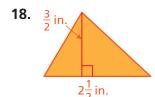
14.
$$\left(1\frac{1}{3}\right)^2 = \underline{\hspace{1cm}}$$

15.
$$\left(1\frac{1}{4}\right)^3 = \underline{\hspace{1cm}}$$

16.
$$\left(2\frac{1}{2}\right)\left(3\frac{1}{2}\right) = \underline{\hspace{1cm}}$$

14.
$$\left(1\frac{1}{3}\right)^2 =$$
 15. $\left(1\frac{1}{4}\right)^3 =$ **16.** $\left(2\frac{1}{2}\right)\left(3\frac{1}{3}\right) =$ **17.** $\left(3\frac{1}{2}\right)\left(\frac{1}{2}\right)^2 =$

Find the area of the triangle.



4 cm

Area =

20. RECIPE Rewrite the recipe so that each item is one-third of the full recipe.

 $2\frac{1}{2}$ cups flour 2 tsp baking powder 4 Tbsp butter -tsp salt $\frac{3}{4}$ cup milk

- _cups flour tsp salt tsp baking powder ____cup milk
- _Tbsp butter