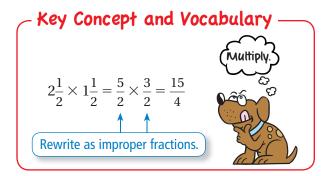
REVIEW: Multiplying Mixed Numbers

Name

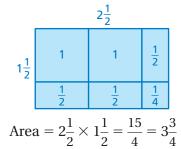


Skill Examples

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

Visual Model



Application Example

5. Find the area of the triangle. 3 in. Area = $\frac{1}{2} \cdot 1\frac{1}{2} \cdot 3$ $=\frac{1}{2}\cdot\frac{3}{2}\cdot\frac{3}{2}\cdot\frac{3}{1}=\frac{9}{4}=2\frac{1}{4}$ $1\frac{1}{2}$ in. The area is $2\frac{1}{4}$ square inches.

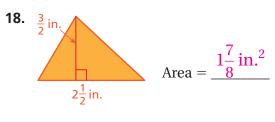
Check your answers at BigIdeasMath.com. -

PRACTICE MAKES PURR-FECT

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

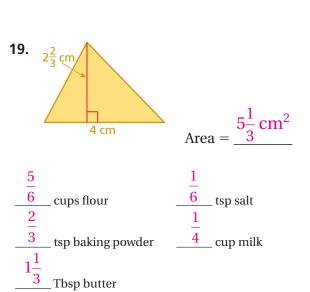
6. $2\frac{1}{3} \times 1\frac{1}{3} = \frac{3\frac{1}{9}}{9}$ **7.** $4\frac{2}{3} \times 1\frac{1}{2} = \frac{7}{8}$ **8.** $1\frac{1}{2} \times 3 = \frac{4\frac{1}{2}}{2}$ **9.** $5\frac{1}{6} \times \frac{1}{3} = \frac{1\frac{13}{18}}{18}$ **10.** $\frac{3}{4} \cdot 3\frac{1}{2} = \frac{2\frac{5}{8}}{8}$ **11.** $5 \cdot 4\frac{1}{2} = \frac{22\frac{1}{2}}{2}$ **12.** $2\frac{1}{7} \cdot \frac{7}{15} = \underline{1}$ **13.** $1\frac{3}{5} \cdot \frac{3}{8} = \underline{\frac{3}{5}}$ **14.** $(1\frac{1}{3})^2 = \underline{\frac{17}{9}}$ **15.** $(1\frac{1}{4})^3 = \underline{\frac{161}{64}}$ **16.** $(2\frac{1}{2})(3\frac{1}{3}) = \underline{\frac{8\frac{1}{3}}{3}}$ **17.** $(3\frac{1}{2})(\frac{1}{2})^2 = \underline{\frac{7}{8}}$

Find the area of the triangle.



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





Tbsp butter