REVIEW: Multiplying Mixed Numbers Name $\qquad$


## 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



$$
\text { Area }=2 \frac{1}{2} \times 1 \frac{1}{2}=\frac{15}{4}=3 \frac{3}{4}
$$

## Application Example

5. Find the area of the triangle.

$$
\begin{aligned}
\text { Area } & =\frac{1}{2} \cdot 1 \frac{1}{2} \cdot 3 \\
& =\frac{1}{2} \cdot \frac{3}{2} \cdot \frac{3}{1}=\frac{9}{4}=2 \frac{1}{4}
\end{aligned}
$$



## PRACTICE makes PURR-FECT ${ }^{\text {m }}$

Find the product. Write your answer as a whole number or mixed number in simplified form.
6. $2 \frac{1}{3} \times 1 \frac{1}{3}=\underline{3 \frac{1}{9}}$
7. $4 \frac{2}{3} \times 1 \frac{1}{2}=$ $\qquad$ 8. $1 \frac{1}{2} \times 3=\underline{4 \frac{1}{2}}$
9. $5 \frac{1}{6} \times \frac{1}{3}=\frac{1 \frac{13}{18}}{}$
10. $\frac{3}{4} \cdot 3 \frac{1}{2}=\underline{2 \frac{5}{8}}$
11. $5 \cdot 4 \frac{1}{2}=22 \frac{1}{2}$
14. $\left(1 \frac{1}{3}\right)^{2}=\underline{1 \frac{7}{9}}$
15. $\left(1 \frac{1}{4}\right)^{3}=\underline{1 \frac{61}{64}}$
12. $2 \frac{1}{7} \cdot \frac{7}{15}=$ $\qquad$
13. $1 \frac{3}{5} \cdot \frac{3}{8}=$ $\qquad$
16. $\left(2 \frac{1}{2}\right)\left(3 \frac{1}{3}\right)=\underline{8 \frac{1}{3}}$
17. $\left(3 \frac{1}{2}\right)\left(\frac{1}{2}\right)^{2}=\underline{\frac{7}{8}}$

## Find the area of the triangle.

18. 


19.


Area $=\underline{5 \frac{1}{3} \mathrm{~cm}^{2}}$
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 |
| $\frac{1}{-}$ tsp salt |
| $\frac{3}{3}$ cup milk |
| 4 |



