REVIEW: Dividing Mixed Numbers

## Key Concept and Vocabulary

$$
\begin{aligned}
& \text { Rewrite as improper fractions. } \\
& \qquad \begin{aligned}
2 \frac{1}{2} \div 5 & =\frac{5}{2} \div \frac{5}{1} \\
& =\frac{5}{2} \times \frac{1}{5} \\
& =\frac{1}{2}
\end{aligned}
\end{aligned}
$$

Name

## Visual Model

Divide $2 \frac{1}{2}$ into five equal parts. Each part is $\frac{1}{2}$.

$$
2 \frac{1}{2} \div 5=\frac{1}{2}
$$



## Application Example

5. You need $2 \frac{1}{2}$ inches of ribbon to make a Blue-Ribbon award. How many awards can you make with 35 inches of ribbon?

$$
35 \div 2 \frac{1}{2}=\frac{35}{1} \div \frac{5}{2}=\frac{35}{1} \times \frac{2}{5}=14
$$

$\therefore$ You can make 14 awards.

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

Find the quotient. Write your answer as a whole or mixed number in simplest form.
6. $4 \frac{1}{2} \div 9=$ $\qquad$
7. $3 \frac{3}{7} \div 8=$ $\qquad$
8. $4 \frac{2}{3} \div 7=$ $\qquad$ 9. $1 \frac{7}{9} \div 4=$ $\qquad$
10. $8 \div 1 \frac{1}{3}=$ $\qquad$ 11. $32 \div 3 \frac{1}{5}=$ $\qquad$ 12. $11 \div 2 \frac{3}{4}=$ $\qquad$ 13. $9 \div 1 \frac{1}{2}=$ $\qquad$
14. $5 \frac{1}{2} \div \frac{1}{2}=$ $\qquad$ 15. $\frac{1}{2} \div 1 \frac{1}{2}=$
16. $1 \frac{1}{4} \div 1 \frac{1}{4}=$ $\qquad$ 17. $3 \frac{1}{2} \div 1 \frac{1}{3}=$ $\qquad$

## Find the missing dimension.

18. 


$\qquad$ ft
19.

20. RED RIBBONS You need $3 \frac{1}{2}$ inches of ribbon to make a Red-Ribbon award. How many awards can you make with 35 inches of ribbon? $\qquad$
21. SHIPPING You are stacking books into a shipping box that is 15 inches high. Each book is $1 \frac{1}{4}$ inches thick. How many books can you fit in a stack? $\qquad$

