Problem of the Day

The distance around the bases is 4×90 feet. How many runs does a baseball team need to score before the scoring base runners have covered a mile? (1 mile = 5,280 feet)



Feb 8-9:23 AM

5.9 Dividing Fractions and Mixed **Numbers**

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Feb 24-11:09 AM

Reciprocals can help you divide by fractions. Two numbers are **reciprocals** if their product is 1.

Find the reciprocal.

 $\frac{1}{9} \cdot \square = 1$ Think: $\frac{1}{9}$ of what number is 1? $\frac{1}{9} \cdot 9 = 1 \cdot \frac{1}{9} \text{ of } \frac{9}{1} \text{ is } 1.$

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The reciprocal of $\frac{1}{9}$ is 9.

Find the reciprocal.

$$\frac{2}{3}$$
 $\frac{3}{2}$

Find the reciprocal.

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Find the reciprocal.

Find the reciprocal.

$$\frac{3}{1}$$

reciprocal.

$$\frac{24 \div 4}{1} = 6$$

$$\frac{24}{1} \cdot \frac{1}{4} = 6$$

 $\frac{24 \div 4}{1} = 6$ Find the reciprocal. $\frac{24 \cdot \frac{1}{4}}{1} = 6$

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$$\frac{5}{6} \div \frac{2}{3}$$

$$\frac{5}{26} \cdot \frac{31}{2} = \frac{5}{4} = \frac{1}{4}$$

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How to divide fractions:

- 1. Keep the first fraction.
- 2. Change the <u>second</u> fraction to its reciprocal. (FLIP)
- 3. Change ÷ to x.

Feb 24-11:43 AM

$$\frac{2}{3} \div \frac{3}{1}$$

$$\frac{2}{3} \div 3 = \frac{2}{3} \cdot \frac{1}{3}$$
Rewrite as multiplication using the reciprocal of 3, $\frac{1}{3}$.

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

Jan 20-8:22 AM

$$\frac{8}{7} \cdot \frac{1}{7} = \frac{8}{49}$$

Jan 20-8:21 AM

$$\frac{7}{10} \div \frac{1}{5}$$

$$\frac{7}{2W} \cdot \frac{2}{1} = \frac{7}{2} = 3\frac{1}{2}$$

$$\begin{array}{c|c}
3\frac{2}{\sqrt{3}} \div 1\frac{1}{\sqrt{9}} \\
\frac{11}{3} \div \frac{10}{9} \\
\frac{11}{3} \cdot \frac{9/3}{10} = \frac{33}{10} \div 3\frac{3}{10}
\end{array}$$

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Find the reciprocal.

1. $\frac{1}{11}$

2. $\frac{8}{13}$

Divide. Write each answer in simplest form.

3.
$$\frac{4}{7} \div 20$$

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

5. Rhonda put $2\frac{3}{4}$ pounds of pecans into a $\frac{1}{4}$ -pound bag. How many bags did Rhonda fill?

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