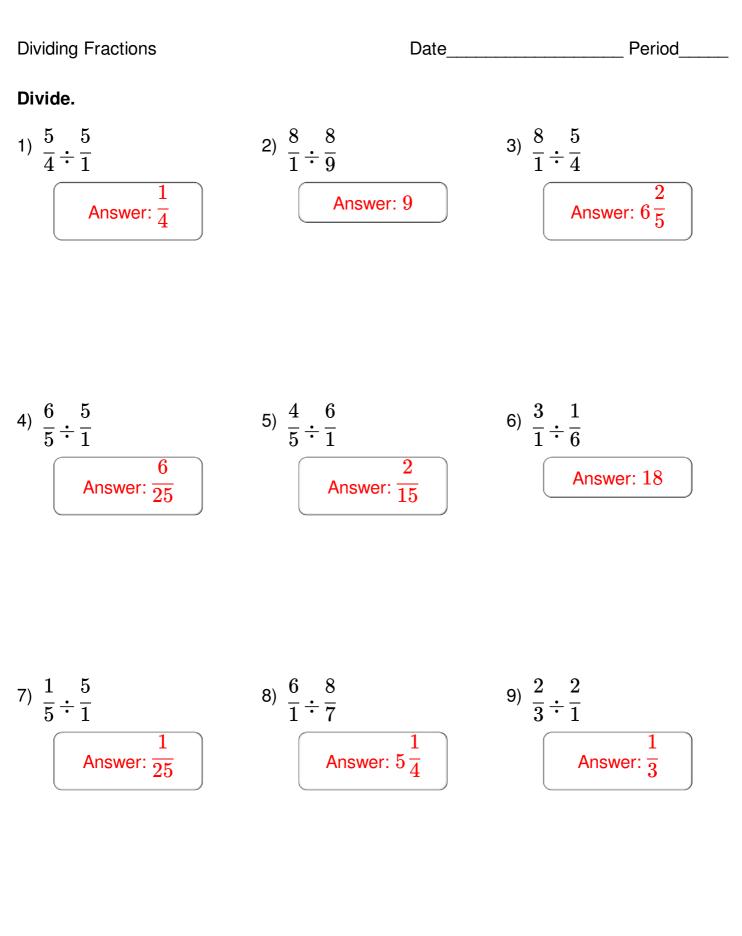
MathVine - Pre-Algebra Name\_\_\_\_\_ **Dividing Fractions** Date\_\_\_\_\_ Period\_\_\_\_\_ Divide. 1)  $\frac{5}{4} \div \frac{5}{1}$ 2)  $\frac{8}{1} \div \frac{8}{9}$ 3)  $\frac{8}{1} \div \frac{5}{4}$ 5)  $\frac{4}{5} \div \frac{6}{1}$ 6)  $\frac{3}{1} \div \frac{1}{6}$ 4)  $\frac{6}{5} \div \frac{5}{1}$ 8)  $\frac{6}{1} \div \frac{8}{7}$ 7)  $\frac{1}{5} \div \frac{5}{1}$ 9)  $\frac{2}{3} \div \frac{2}{1}$ 

MathVine - Pre-Algebra

Name



## Solution Steps

1)  $\frac{5}{4} \div \frac{5}{1}$ Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\overline{5}$ 5 5 51  $\frac{1}{1} = \overline{4} \cdot \overline{5}$  $\overline{\frac{4}{5}}$  $\overline{4}^*\overline{5}_{(5*1)}$ (4 \* 5) $(5^1 * 1)$  $(4 * 5^{1})$ 4 C

4) 
$$\frac{6}{5} \div \frac{5}{1}$$

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{1}{5}$  $\frac{6}{5} / \frac{5}{1} = \frac{6}{5} \cdot \frac{1}{5}$  $\frac{6}{5} / \frac{5}{1} = \frac{6}{5} \cdot \frac{1}{5}$  $\frac{6}{5} \cdot \frac{1}{5}$  2)  $\frac{8}{1} \div \frac{8}{9}$ Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{8}{8}$   $\frac{8}{1} / \frac{8}{9} = \frac{8}{1} \cdot \frac{9}{8}$   $\frac{8}{1} \cdot \frac{8}{9} = \frac{9}{1} \cdot \frac{8}{8}$   $\frac{(8 * 9)}{(1 * 8)}$   $\frac{(8^{1} * 9)}{(1 * 8^{1})}$ 9

5) 
$$\frac{4}{5} \div \frac{6}{1}$$

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{1}{6}$  $\frac{4}{5} \cdot \frac{6}{1} = \frac{4}{5} \cdot \frac{1}{6}$  $\frac{4}{5} \cdot \frac{6}{1} = \frac{4}{5} \cdot \frac{1}{6}$  $\frac{4}{5} \cdot \frac{1}{6}$  $\frac{(4 \times 1)}{(5 \times 6)}$  $\frac{(4^2 \times 1)}{(5 \times 6^3)}$  $\frac{2}{15}$  3)  $\frac{8}{1} \div \frac{5}{4}$ 

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{4}{5}$  $\frac{8}{1}/\frac{5}{4} = \frac{8}{1} \cdot \frac{4}{5}$  $\frac{1}{1} \cdot \frac{5}{5}$  $\frac{(8 \times 4)}{(1 \times 5)}$  $\frac{2}{6}$ 

6) 
$$\frac{3}{1} \div \frac{1}{6}$$

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{6}{1}$  $\frac{3}{1}$ ,  $\frac{1}{6} = \frac{3}{1}$ ,  $\frac{6}{1}$  $\frac{3}{1}$ ,  $\frac{6}{6} = \frac{1}{1}$ ,  $\frac{6}{1}$  $\frac{3}{1}$ ,  $\frac{6}{1} = \frac{1}{1}$ ,  $\frac{6}{1}$  $\frac{3}{1}$ ,  $\frac{6}{1} = \frac{1}{1}$ ,  $\frac{6}{1}$  $\frac{3}{1}$ ,  $\frac{6}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{3}{1}$ ,  $\frac{6}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{3}{1}$ ,  $\frac{6}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{1}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{1}{1}$  $\frac{1}{1}$ ,  $\frac{1}{1}$ ,  $\frac{1}{1}$  $\frac{1}{1}$ ,  $\frac{1}$ 

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

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{1}{5}$  $\frac{1}{5} / \frac{5}{1} = \frac{1}{5} * \frac{1}{5}$  $\frac{1}{5} * \frac{5}{5}$  $\frac{1}{1} + \frac{1}{5} * \frac{5}{5}$  $\frac{1}{5} * \frac{5}{5}$  $\frac{1}{5} + \frac{5}{5}$  $\frac{1}{5} + \frac{5}{5}$  $\frac{1}{5} + \frac{5}{5}$ 

8) 
$$\frac{6}{1} \div \frac{8}{7}$$

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{7}{8}$  $\frac{6}{1} \cdot \frac{8}{7} = \frac{6}{1} \cdot \frac{7}{8}$  $\frac{6}{1} \cdot \frac{7}{7} = \frac{1}{1} \cdot \frac{8}{8}$  $\frac{6}{1} \cdot \frac{7}{1} = \frac{1}{1} \cdot \frac{8}{8}$  $\frac{6^3 \times 7}{(1 \times 8)}$  $\frac{1}{5 \times 4}$  9)  $\frac{2}{3} \div \frac{2}{1}$ 

Dividing fractions is the same as multiplying by the reciprocal The reciprocal of the second fraction is  $\frac{1}{2}$  $\frac{2}{3}/\frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$  $\frac{3}{3} \cdot \frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$  $\frac{3}{3} \cdot \frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$  $\frac{(2 \cdot 1)}{(3 \cdot 2)}$  $\frac{(2^1 \cdot 1)}{(3 \cdot 2^1)}$  $\frac{1}{3}$