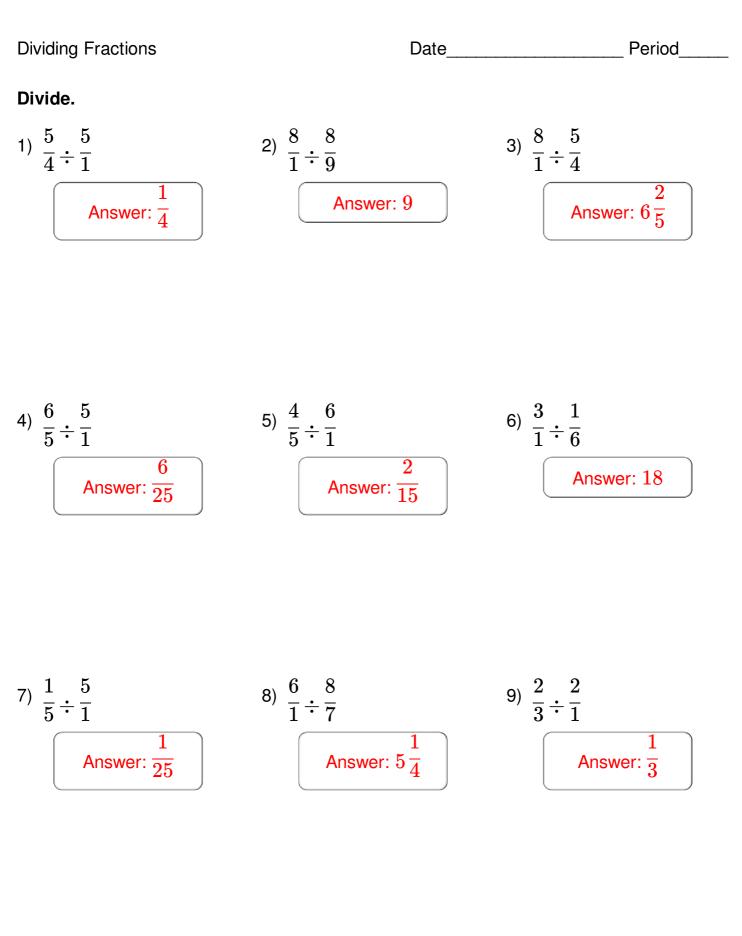
MathVine - Pre-Algebra Name_____ **Dividing Fractions** Date_____ Period_____ Divide. 1) $\frac{5}{4} \div \frac{5}{1}$ 2) $\frac{8}{1} \div \frac{8}{9}$ 3) $\frac{8}{1} \div \frac{5}{4}$ 5) $\frac{4}{5} \div \frac{6}{1}$ 6) $\frac{3}{1} \div \frac{1}{6}$ 4) $\frac{6}{5} \div \frac{5}{1}$ 8) $\frac{6}{1} \div \frac{8}{7}$ 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 $\frac{1}{2}$ $\frac{2}{3}/\frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$ $\frac{3}{3} \cdot \frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$ $\frac{3}{3} \cdot \frac{2}{1} = \frac{2}{3} \cdot \frac{1}{2}$ $\frac{(2 \cdot 1)}{(3 \cdot 2)}$ $\frac{(2^1 \cdot 1)}{(3 \cdot 2^1)}$ $\frac{1}{3}$