MathVine - Pre-Algebra Name_____

Dividing Fractions Date_____ Period_____

Divide.

1) $\frac{3}{2} \div \frac{7}{1}$

2) $\frac{7}{9} \div \frac{3}{1}$

3) $\frac{2}{1} \div \frac{3}{7}$

4) $\frac{6}{1} \div \frac{4}{7}$

5) $\frac{8}{3} \div \frac{6}{1}$

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

7) $\frac{3}{1} \div \frac{9}{7}$

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

9) $\frac{7}{2} \div \frac{7}{1}$

Dividing Fractions Date_____ Period_____

Divide.

1) $\frac{3}{2} \div \frac{7}{1}$

Answer: $\frac{3}{14}$

2) $\frac{7}{9} \div \frac{3}{1}$

Answer: $\frac{7}{27}$

3) $\frac{2}{1} \div \frac{3}{7}$

Answer: $4\frac{2}{3}$

4) $\frac{6}{1} \div \frac{4}{7}$

Answer: $10\frac{1}{2}$

5) $\frac{8}{3} \div \frac{6}{1}$

Answer: $\frac{4}{9}$

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

Answer: 2

7) $\frac{3}{1} \div \frac{9}{7}$

Answer: $2\frac{1}{3}$

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

Answer: $\frac{1}{3}$

9) $\frac{7}{2} \div \frac{7}{1}$

Answer: $\frac{1}{2}$

Dividing Fractions Date_____ Period_____

Solution Steps

1) $\frac{3}{2} \div \frac{7}{1}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{1}{7}$

$\frac{3}{2} / \frac{7}{1} = \frac{3}{2} * \frac{1}{7}$

$\frac{3}{2} * \frac{1}{7}$

$\frac{(3 * 1)}{(2 * 7)}$

$\frac{3}{14}$

2) $\frac{7}{9} \div \frac{3}{1}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{1}{3}$

$\frac{7}{9} / \frac{3}{1} = \frac{7}{9} * \frac{1}{3}$

$\frac{7}{9} * \frac{1}{3}$

$\frac{(7 * 1)}{(9 * 3)}$

$\frac{7}{27}$

3) $\frac{2}{1} \div \frac{3}{7}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{7}{3}$

$\frac{2}{1} / \frac{3}{7} = \frac{2}{1} * \frac{7}{3}$

$\frac{2}{1} * \frac{7}{3}$

$\frac{(2 * 7)}{(1 * 3)}$

$4\frac{2}{3}$

4) $\frac{6}{1} \div \frac{4}{7}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{7}{4}$

$\frac{6}{1} / \frac{4}{7} = \frac{6}{1} * \frac{7}{4}$

$\frac{6}{1} * \frac{7}{4}$

$\frac{(6 * 7)}{(1 * 4)}$

$\frac{(6^{3} * 7)}{(1 * 4^{2})}$

$10\frac{1}{2}$

5) $\frac{8}{3} \div \frac{6}{1}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{1}{6}$

$\frac{8}{3} / \frac{6}{1} = \frac{8}{3} * \frac{1}{6}$

$\frac{8}{3} * \frac{1}{6}$

$\frac{(8 * 1)}{(3 * 6)}$

$\frac{(8^{4} * 1)}{(3 * 6^{3})}$

$\frac{4}{9}$

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

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{2}{3}$

$\frac{3}{1} / \frac{3}{2} = \frac{3}{1} * \frac{2}{3}$

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

$\frac{(3 * 2)}{(1 * 3)}$

$\frac{(3^{1} * 2)}{(1 * 3^{1})}$

2

7) $\frac{3}{1} \div \frac{9}{7}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{7}{9}$

$\frac{3}{1} / \frac{9}{7} = \frac{3}{1} * \frac{7}{9}$

$\frac{3}{1} * \frac{7}{9}$

$\frac{(3 * 7)}{(1 * 9)}$

$\frac{(3^1 * 7)}{(1 * 9^3)}$

$2\frac{1}{3}$

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

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{1}{2}$

$\frac{2}{3} / \frac{2}{1} = \frac{2}{3} * \frac{1}{2}$

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

$\frac{(2 * 1)}{(3 * 2)}$

$\frac{(2^1 * 1)}{(3 * 2^1)}$

$\frac{1}{3}$

9) $\frac{7}{2} \div \frac{7}{1}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\frac{1}{7}$

$\frac{7}{2} / \frac{7}{1} = \frac{7}{2} * \frac{1}{7}$

$\frac{7}{2} * \frac{1}{7}$

$\frac{(7 * 1)}{(2 * 7)}$

$\frac{(7^1 * 1)}{(2 * 7^1)}$

$\frac{1}{2}$