Name_____

Dividing Fractions

Date_____ Period_____

Divide.

1) $\dfrac{9}{2} \div \dfrac{3}{1}$

2) $\dfrac{1}{2} \div \dfrac{4}{1}$

3) $\dfrac{5}{1} \div \dfrac{2}{3}$

4) $\dfrac{4}{7} \div \dfrac{4}{1}$

5) $\dfrac{8}{1} \div \dfrac{5}{8}$

6) $\dfrac{3}{1} \div \dfrac{7}{3}$

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

8) $\dfrac{1}{8} \div \dfrac{5}{1}$

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

Name_____

Dividing Fractions

Date_____ Period_____

Divide.

1) $\dfrac{9}{2} \div \dfrac{3}{1}$

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

2) $\dfrac{1}{2} \div \dfrac{4}{1}$

Answer: $\dfrac{1}{8}$

3) $\dfrac{5}{1} \div \dfrac{2}{3}$

Answer: $7\dfrac{1}{2}$

4) $\dfrac{4}{7} \div \dfrac{4}{1}$

Answer: $\dfrac{1}{7}$

5) $\dfrac{8}{1} \div \dfrac{5}{8}$

Answer: $12\dfrac{4}{5}$

6) $\dfrac{3}{1} \div \dfrac{7}{3}$

Answer: $1\dfrac{2}{7}$

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

Answer: $\dfrac{1}{6}$

8) $\dfrac{1}{8} \div \dfrac{5}{1}$

Answer: $\dfrac{1}{40}$

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

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

Name_____

Dividing Fractions   Date_____ Period_____

Solution Steps

1) $\dfrac{9}{2} \div \dfrac{3}{1}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{1}{3}$

$\dfrac{9}{2} / \dfrac{3}{1} = \dfrac{9}{2} * \dfrac{1}{3}$

$\dfrac{9}{2} * \dfrac{1}{3}$

$\dfrac{(9*1)}{(2*3)}$

$\dfrac{(9^{3}*1)}{(2_{1}*3^{1})}$

$1\dfrac{1}{2}$

2) $\dfrac{1}{2} \div \dfrac{4}{1}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{1}{4}$

$\dfrac{1}{2} / \dfrac{4}{1} = \dfrac{1}{2} * \dfrac{1}{4}$

$\dfrac{1}{2} * \dfrac{1}{4}$

$\dfrac{(1*1)}{(2*4)}$

$\dfrac{1}{8}$

3) $\dfrac{5}{1} \div \dfrac{2}{3}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{3}{2}$

$\dfrac{5}{1} / \dfrac{2}{3} = \dfrac{5}{1} * \dfrac{3}{2}$

$\dfrac{5}{1} * \dfrac{3}{2}$

$\dfrac{(5*3)}{(1*2)}$

$7\dfrac{1}{2}$

4) $\dfrac{4}{7} \div \dfrac{4}{1}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{1}{4}$

$\dfrac{4}{7} / \dfrac{4}{1} = \dfrac{4}{7} * \dfrac{1}{4}$

$\dfrac{4}{7} * \dfrac{1}{4}$

$\dfrac{(4*1)}{(7*4)}$

$\dfrac{(4^{1}*1)}{(7*4^{1})}$

$\dfrac{1}{7}$

5) $\dfrac{8}{1} \div \dfrac{5}{8}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{8}{5}$

$\dfrac{8}{1} / \dfrac{5}{8} = \dfrac{8}{1} * \dfrac{8}{5}$

$\dfrac{8}{1} * \dfrac{8}{5}$

$\dfrac{(8*8)}{(1*5)}$

$12\dfrac{4}{5}$

6) $\dfrac{3}{1} \div \dfrac{7}{3}$

Dividing fractions is the same as multiplying by the reciprocal
The reciprocal of the second fraction is $\dfrac{3}{7}$

$\dfrac{3}{1} / \dfrac{7}{3} = \dfrac{3}{1} * \dfrac{3}{7}$

$\dfrac{3}{1} * \dfrac{3}{7}$

$\dfrac{(3*3)}{(1*7)}$

$1\dfrac{2}{7}$

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

Dividing fractions is the same as multiplying by the reciprocal

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

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

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

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

$\dfrac{1}{6}$

8) $\dfrac{1}{8} \div \dfrac{5}{1}$

Dividing fractions is the same as multiplying by the reciprocal

The reciprocal of the second fraction is $\dfrac{1}{5}$

$\dfrac{1}{8} / \dfrac{5}{1} = \dfrac{1}{8} * \dfrac{1}{5}$

$\dfrac{1}{8} * \dfrac{1}{5}$

$\dfrac{(1 * 1)}{(8 * 5)}$

$\dfrac{1}{40}$

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

Dividing fractions is the same as multiplying by the reciprocal

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

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

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

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

$10\dfrac{1}{2}$