

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 10 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Dividing Fractions

Multiply by the reciprocal and simplify.

1.  $\frac{1}{2} \div \frac{7}{10}$

\_\_\_\_\_

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

\_\_\_\_\_

3.  $\frac{1}{3} \div \frac{7}{10}$

\_\_\_\_\_

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

\_\_\_\_\_

5.  $\frac{7}{10} \div \frac{2}{4}$

\_\_\_\_\_

6.  $\frac{4}{10} \div \frac{2}{3}$

\_\_\_\_\_

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

\_\_\_\_\_

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

\_\_\_\_\_

9.  $\frac{3}{5} \div \frac{2}{4}$

\_\_\_\_\_

10.  $\frac{1}{4} \div \frac{1}{4}$

\_\_\_\_\_

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## Dividing Fractions - Answer key

Multiply by the reciprocal and simplify.

1.

$$\frac{1}{2} \div \frac{7}{10}$$
$$= \frac{5}{7}$$

Multiply by the reciprocal of 7/10: 10/7.  
 $\frac{1}{2} \times \frac{10}{7} = \frac{10}{14} = \frac{5}{7}$   
Divide both parts by 2:  $\frac{10}{14} = \frac{5}{7}$ .

2.

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

Multiply by the reciprocal of 2/3: 3/2.  
 $\frac{1}{3} \times \frac{3}{2} = \frac{3}{6} = \frac{1}{2}$   
Divide both parts by 3:  $\frac{3}{6} = \frac{1}{2}$ .

3.

$$\frac{1}{3} \div \frac{7}{10}$$
$$= \frac{10}{21}$$

Multiply by the reciprocal of 7/10: 10/7.  
 $\frac{1}{3} \times \frac{10}{7} = \frac{10}{21} = \frac{10}{21}$   
Already in lowest terms: 10/21.

4.

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

Multiply by the reciprocal of 2/4: 4/2.  
 $\frac{1}{3} \times \frac{4}{2} = \frac{4}{6} = \frac{2}{3}$   
Divide both parts by 2:  $\frac{4}{6} = \frac{2}{3}$ .

5.

$$\frac{7}{10} \div \frac{2}{4}$$
$$= \frac{7}{5}$$

Multiply by the reciprocal of 2/4: 4/2.  
 $\frac{7}{10} \times \frac{4}{2} = \frac{28}{20} = \frac{7}{5}$   
Divide both parts by 4:  $\frac{28}{20} = \frac{7}{5}$ .

6.

$$\frac{4}{10} \div \frac{2}{3}$$
$$= \frac{3}{5}$$

Multiply by the reciprocal of 2/3: 3/2.  
 $\frac{4}{10} \times \frac{3}{2} = \frac{12}{20} = \frac{3}{5}$   
Divide both parts by 4:  $\frac{12}{20} = \frac{3}{5}$ .

7.

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

Multiply by the reciprocal of 2/3: 3/2.  
 $\frac{1}{3} \times \frac{3}{2} = \frac{3}{6} = \frac{1}{2}$   
Divide both parts by 3:  $\frac{3}{6} = \frac{1}{2}$ .

8.

$$\frac{1}{4} \div \frac{1}{2}$$
$$= \frac{1}{2}$$

Multiply by the reciprocal of 1/2: 2.  
 $\frac{1}{4} \times 2 = \frac{2}{4} = \frac{1}{2}$   
Divide both parts by 2:  $\frac{2}{4} = \frac{1}{2}$ .

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## Dividing Fractions - Answer key

Multiply by the reciprocal and simplify.

9.

$$\frac{3}{5} \div \frac{2}{4} = \frac{6}{5}$$

Multiply by the reciprocal of  $2/4$ :  $4/2$ .

$$3/5 \times 4/2 = 12/10 = 6/5$$

Divide both parts by 2:  $12/10 = 6/5$ .

10.

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

Multiply by the reciprocal of  $1/4$ :  $4$ .

$$1/4 \times 4 = 4/4 = 1$$

Divide both parts by 4:  $4/4 = 1$ .