

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: $4/4 = 1$.