

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Dividing Fractions and Whole Numbers

Divide fractions and whole numbers using exact reciprocal steps.

1. $\frac{1}{5} \div 3$

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

3. $\frac{1}{2} \div 9$

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

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

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

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

8. $6 \div \frac{1}{4}$

9. $\frac{1}{2} \div 6$

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

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Dividing Fractions and Whole Numbers - Answer key

Divide fractions and whole numbers using exact reciprocal steps.

1.

$$\frac{1}{5} \div 3$$
$$= \frac{1}{15}$$

Multiply by the reciprocal of 3: $1/3$.
 $1/5 \times 1/3 = 1/15 = 1/15$
Already in lowest terms: $1/15$.

2.

$$4 \div \frac{4}{5}$$
$$= 5$$

Multiply by the reciprocal of $4/5$: $5/4$.
 $4 \times 5/4 = 20/4 = 5$
Divide both parts by 4: $20/4 = 5$.

3.

$$\frac{1}{2} \div 9$$
$$= \frac{1}{18}$$

Multiply by the reciprocal of 9: $1/9$.
 $1/2 \times 1/9 = 1/18 = 1/18$
Already in lowest terms: $1/18$.

4.

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

Multiply by the reciprocal of $1/2$: 2.
 $3 \times 2 = 6/1 = 6$
Already in lowest terms: 6.

5.

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

Multiply by the reciprocal of 2: $1/2$.
 $1/2 \times 1/2 = 1/4 = 1/4$
Already in lowest terms: $1/4$.

6.

$$6 \div \frac{2}{4}$$
$$= 12$$

Multiply by the reciprocal of $2/4$: $4/2$.
 $6 \times 4/2 = 24/2 = 12$
Divide both parts by 2: $24/2 = 12$.

7.

$$\frac{1}{2} \div 7$$
$$= \frac{1}{14}$$

Multiply by the reciprocal of 7: $1/7$.
 $1/2 \times 1/7 = 1/14 = 1/14$
Already in lowest terms: $1/14$.

8.

$$6 \div \frac{1}{4}$$
$$= 24$$

Multiply by the reciprocal of $1/4$: 4.
 $6 \times 4 = 24/1 = 24$
Already in lowest terms: 24.

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Dividing Fractions and Whole Numbers - Answer key

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9.

$$\frac{1}{2} \div 6$$
$$= \frac{1}{12}$$

Multiply by the reciprocal of 6: $1/6$.

$$1/2 \times 1/6 = 1/12 = 1/12$$

Already in lowest terms: $1/12$.

10.

$$2 \div \frac{3}{4}$$
$$= \frac{8}{3}$$

Multiply by the reciprocal of $3/4$: $4/3$.

$$2 \times 4/3 = 8/3 = 8/3$$

Already in lowest terms: $8/3$.