

Name: \_\_\_\_\_

## Dividing Fractions

**Example:**

$$\frac{4}{7} \div \frac{2}{3} = \frac{4}{7} \times \frac{3}{2}$$

↑ reciprocals ↓

Dividing by a number is the same as multiplying by its reciprocal.

$$\frac{4}{7} \times \frac{3}{2} = \frac{12}{14} = \frac{6}{7}$$

a.  $\frac{3}{8} \div \frac{4}{5}$

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

c.  $\frac{4}{9} \div \frac{1}{5}$

d.  $4 \div \frac{6}{7}$

e.  $\frac{1}{5} \div \frac{5}{8}$

f.  $\frac{3}{5} \div \frac{7}{8}$

g.  $\frac{3}{5} \div \frac{2}{3}$

h.  $\frac{8}{9} \div \frac{4}{5}$

i.  $\frac{7}{9} \div \frac{1}{2}$

j.  $7 \div \frac{7}{8}$

k.  $\frac{3}{7} \div \frac{4}{5}$

l.  $\frac{2}{3} \div \frac{8}{9}$

# ANSWER KEY

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Example:

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↑ reciprocals ↓

Dividing by a number is the same as multiplying by its reciprocal.

$$\frac{4}{7} \times \frac{3}{2} = \frac{12}{14} = \frac{6}{7}$$

a.  $\frac{3}{8} \div \frac{4}{5}$

$$\frac{3}{8} \times \frac{5}{4} = \frac{15}{32}$$

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

$$\frac{3}{5} \times \frac{3}{1} = \frac{9}{5} = 1 \frac{4}{5}$$

c.  $\frac{4}{9} \div \frac{1}{5}$

$$\frac{4}{9} \times \frac{5}{1} = \frac{20}{9} = 2 \frac{2}{9}$$

d.  $4 \div \frac{6}{7}$

$$\frac{4}{1} \times \frac{7}{6} = \frac{28}{6} = 4 \frac{4}{6} = 4 \frac{2}{3}$$

e.  $\frac{1}{5} \div \frac{5}{8}$

$$\frac{1}{5} \times \frac{8}{5} = \frac{8}{25}$$

f.  $\frac{3}{5} \div \frac{7}{8}$

$$\frac{3}{5} \times \frac{8}{7} = \frac{24}{35}$$

g.  $\frac{3}{5} \div \frac{2}{3}$

$$\frac{3}{5} \times \frac{3}{2} = \frac{9}{10}$$

h.  $\frac{8}{9} \div \frac{4}{5}$

$$\frac{8}{9} \times \frac{5}{4} = \frac{40}{36} = 1 \frac{4}{36} = 1 \frac{1}{9}$$

i.  $\frac{7}{9} \div \frac{1}{2}$

$$\frac{7}{9} \times \frac{2}{1} = \frac{14}{9} = 1 \frac{5}{9}$$

j.  $7 \div \frac{7}{8}$

$$\frac{7}{1} \times \frac{8}{7} = \frac{56}{7} = 8$$

k.  $\frac{3}{7} \div \frac{4}{5}$

$$\frac{3}{7} \times \frac{5}{4} = \frac{15}{28}$$

l.  $\frac{2}{3} \div \frac{8}{9}$

$$\frac{2}{3} \times \frac{9}{8} = \frac{18}{24} = \frac{3}{4}$$