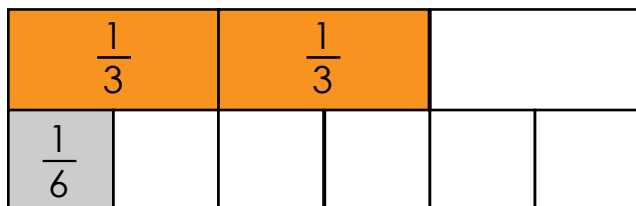


Name: _____

Dividing Fractions

Example:



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

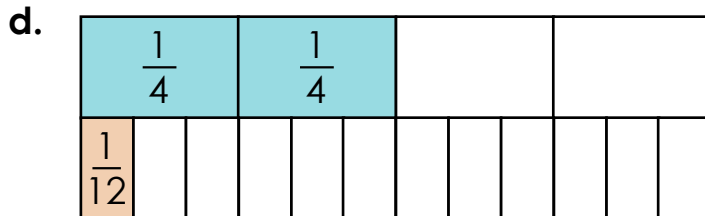
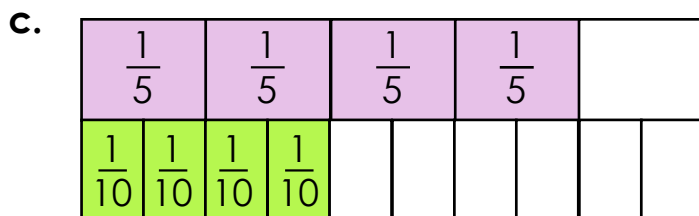
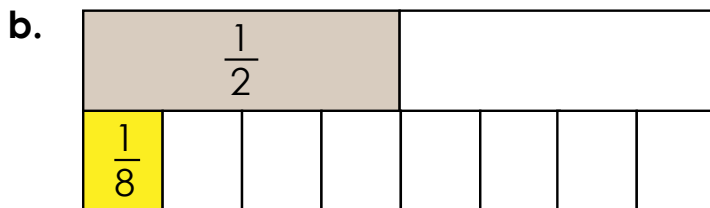
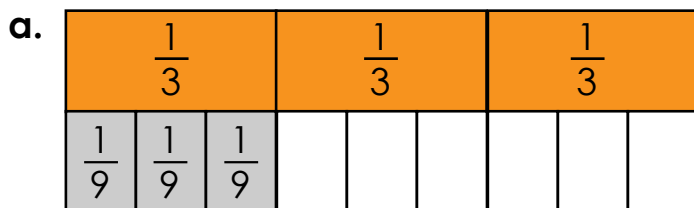
$$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1}$$

↑ reciprocals ↑

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$

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

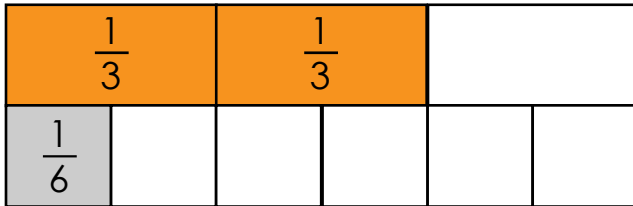
Write the division problem that each model represents. Then solve and simplify if possible.



ANSWER KEY

Dividing Fractions

Example:



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

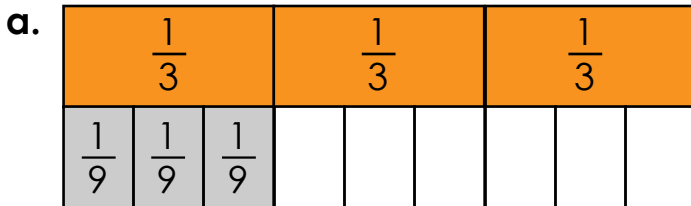
$$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1}$$

↑ reciprocals ↑

$$\frac{2}{3} \times \frac{6}{1} = \frac{12}{3} = 4$$

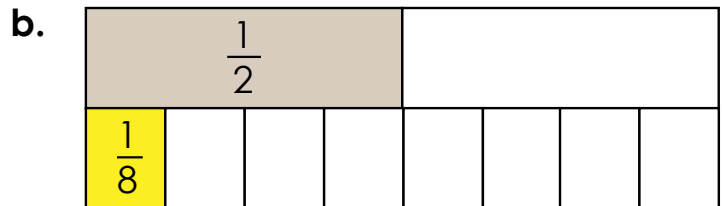
Dividing by a number is the same as multiplying by its reciprocal.

Write the division problem that each model represents. Then solve and simplify if possible.



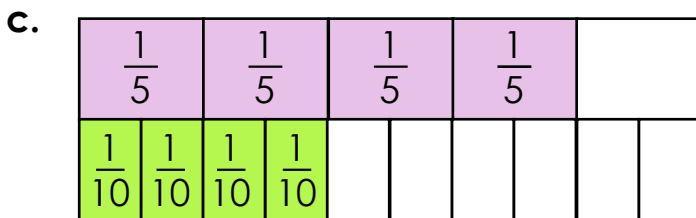
$$\frac{3}{3} \div \frac{1}{9} = \frac{3}{3} \times \frac{9}{1}$$

$$\frac{3}{3} \times \frac{9}{1} = \frac{27}{3} = 9$$



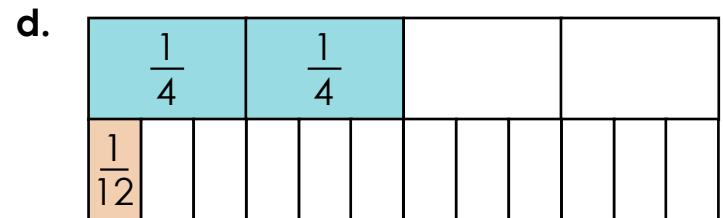
$$\frac{1}{2} \div \frac{1}{8} = \frac{1}{2} \times \frac{8}{1}$$

$$\frac{1}{2} \times \frac{8}{1} = \frac{8}{2} = 4$$



$$\frac{4}{5} \div \frac{1}{10} = \frac{4}{5} \times \frac{10}{1}$$

$$\frac{4}{5} \times \frac{10}{1} = \frac{40}{5} = 8$$



$$\frac{2}{4} \div \frac{1}{12} = \frac{2}{4} \times \frac{12}{1}$$

$$\frac{2}{4} \times \frac{12}{1} = \frac{24}{4} = 6$$