

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## Dividing Whole Numbers By Fractions

By the end of this lesson, you will know how to divide a whole number by a fraction.

1.

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

Written in words: How many groups of  $\frac{1}{2}$  are there in 4?

Shown using a model:



Answer: 8 groups of  $\frac{1}{2}$

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

Written in words:

Shown using a model:



Answer:

c.  $6 \div \frac{1}{3}$

Written in words:

Shown using a model:



Answer:

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

Written in words:

Shown using a model:



Answer:

e. Rewrite all the problems above as multiplication problems.

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

ii.  $3 \div \frac{1}{4} =$

iii.  $6 \div \frac{1}{3} =$

iv.  $5 \div \frac{1}{5} =$

f. What do you think the “trick” is for dividing whole numbers by fractions?

g. Use your trick to complete each of the problems below.

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

ii.  $12 \div \frac{1}{2}$

iii.  $4 \div \frac{1}{5}$

iv.  $6 \div \frac{1}{7}$

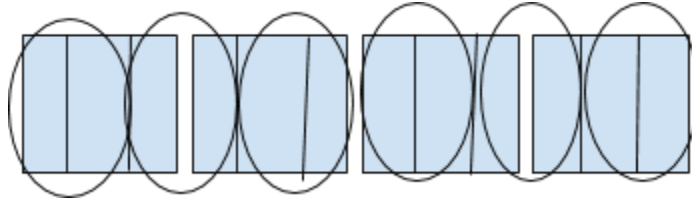
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2. Complete each of the problems below.

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

Written in words: How many groups of  $\frac{1}{2}$  are there in 4?

Shown using a model:



Answer: 6 groups of  $\frac{2}{3}$

b.  $3 \div \frac{3}{4}$

Written in words:

Shown using a model:



Answer:

c.  $6 \div \frac{2}{5}$

Written in words:

Shown using a model:



Answer:

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d.  $5 \div \frac{5}{8}$

Written in words:

Shown using a model:



Answer:

e. Rewrite all the problems above as multiplication problems.

i.  $4 \div \frac{2}{3} =$

ii.  $3 \div \frac{3}{4} =$

iii.  $6 \div \frac{2}{5} =$

iv.  $5 \div \frac{5}{8} =$

f. What do you think the “trick” is for dividing whole numbers by fractions?

g. Use your trick to complete each of the problems below.

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

ii.  $12 \div \frac{2}{3}$

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

iv.  $6 \div \frac{5}{7}$