

Name: Class:

Divide unit fractions by whole numbers using models

Solve the following problems using models.

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

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

c. $\frac{1}{2} \div 8$

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

e. $\frac{3}{4} \div 6$

f. $\frac{2}{4} \div 16$

g. $\frac{5}{7} \div 9$

h. $\frac{2}{6} \div 3$

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

j. $\frac{1}{4} \div 24$

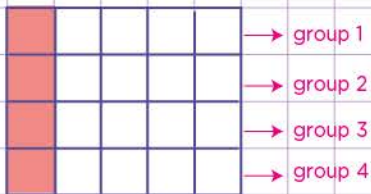
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Divide unit fractions by whole numbers using models.

Solve the following problems using models.

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

Let's first of all interpret the expression by drawing the model and dividing it into 4 groups of $\frac{1}{5}$.

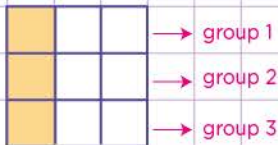


The shaded squares represent one fifths in four groups.
 Each group gets 1 out of a total of 20 squares in the model.
 So, each group gets $\frac{1}{20}$ of the whole.

Therefore, $\frac{1}{5} \div 4 = \frac{1}{20}$.

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

Let's first of all interpret the expression by drawing the model and dividing it into 3 groups of $\frac{1}{3}$.

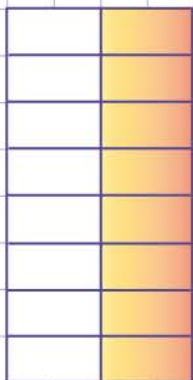


The shaded squares represent one third in three groups.
 Each group gets 1 out of a total of 9 squares in the model.
 So, each group gets $\frac{1}{9}$ of the whole.

Therefore, $\frac{1}{3} \div 3 = \frac{1}{9}$.

c. $\frac{1}{2} \div 8$

Let's first of all interpret the expression by drawing the model and dividing it into 8 groups of $\frac{1}{2}$.



The shaded rectangles represent halves in eight groups.
 Each group gets 1 out of a total of 16 rectangles in the model.
 So, each group gets $\frac{1}{16}$ of the whole.

Therefore, $\frac{1}{2} \div 8 = \frac{1}{16}$.