

Name _____

Date _____

Interpret and Compute Quotients of Fractions - Guided Lesson Explanation**Explanation#1**

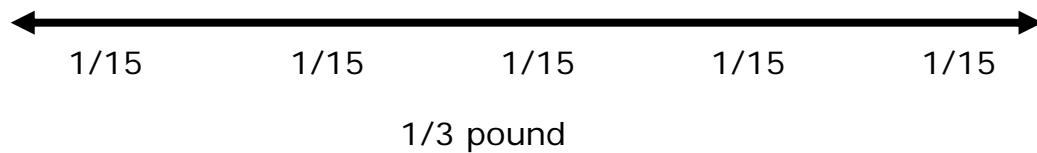
There are a number of ways to do this. We could divide 3 by $\frac{1}{4}$.

$$3 \div \frac{1}{4} = \frac{3}{1} \div \frac{1}{4} = \frac{3}{1} \times \frac{4}{1} = 12$$

Answer is: 12

Explanation#2

If all his 5 friends share $\frac{1}{3}$ pound of grapes, it would look like this.



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

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So the answer is $\frac{1}{15}$ lb.

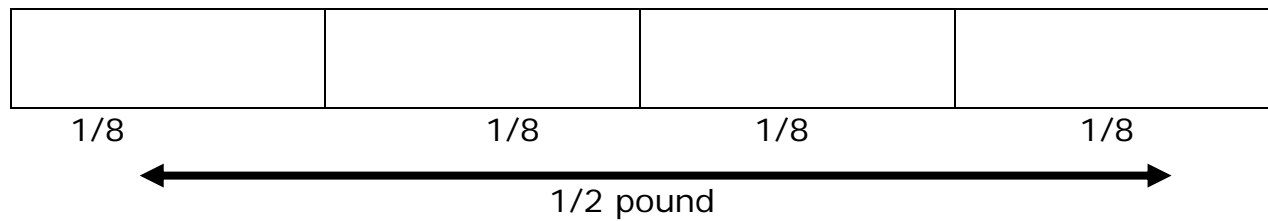


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Explanation#3

If all 4 people share toffee that is $\frac{1}{2}$ lb., it would look like this:



Divide the total amount of toffee by the number of cups

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

We will write 4 as an improper fraction.

$$\frac{4}{1}$$

Turn this from a division problem into a multiplication problem by multiplying by the reciprocal.

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

Now multiply:

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

Answer is: $\frac{1}{8}$ lb.

