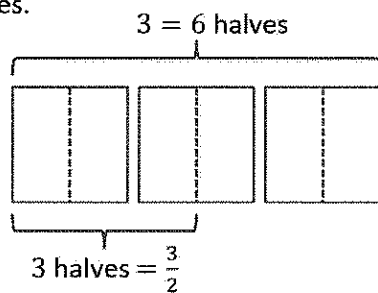


## G5-M4-Lesson 3

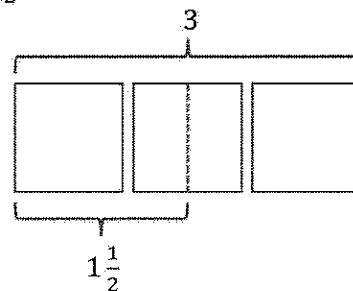
1. Fill in the chart.

Division Expression	Unit Form	Improper Fraction	Mixed Number	Standard Algorithm (Write your answer in whole numbers and fractional units. Then check.)
a. $3 \div 2$	$6 \text{ halves} \div 2 =$ $3 \text{ halves}$	$\frac{3}{2}$	$1\frac{1}{2}$	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <math display="block">\begin{array}{r} 1\frac{1}{2} \\ 2 \overline{) 3} \\ \underline{-2} \\ 1 \end{array}</math> </div> <div> <p>Check:</p> <math display="block">2 \times 1\frac{1}{2}</math> <math display="block">= 1\frac{1}{2} + 1\frac{1}{2}</math> <math display="block">= 3</math> </div> </div>

I can visualize the drawings I made in the previous lesson. 3 crackers are shared equally by 2 people. I could partition each cracker into 2 equal parts and then share the 6 halves.



I can think of this another way too. Since there are 3 crackers being shared equally by 2 people, each person could get 1 whole cracker and  $\frac{1}{2}$  of another.



Division Expression	Unit Form	Improper Fraction	Mixed Numbers	Standard Algorithm (Write your answer in whole numbers and fractional units. Then check.)
b. $5 \div 3$	$15 \text{ thirds} \div 3 = 5 \text{ thirds}$	$\frac{5}{3}$	$1\frac{2}{3}$	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <math display="block">\begin{array}{r} 1\frac{2}{3} \\ 3 \overline{) 5} \\ \underline{-3} \phantom{0} \\ 2 \phantom{0} \end{array}</math> </div> <div> <p><i>Check:</i></p> <math display="block">3 \times 1\frac{2}{3}</math> <math display="block">= 1\frac{2}{3} + 1\frac{2}{3} + 1\frac{2}{3}</math> <math display="block">= 3\frac{6}{3}</math> <math display="block">= 3 + 2</math> <math display="block">= 5</math> </div> </div>

This time I am given the mixed number. I know that  $1\frac{2}{3}$  is the same as  $\frac{3}{3} + \frac{2}{3}$ , which is equal to  $\frac{5}{3}$ . I can think of  $\frac{5}{3}$  as a division expression,  $5 \div 3$ .

The standard algorithm makes sense. If there were 5 crackers being shared equally by 3 people, each person could get 1 whole cracker, and then the remaining 2 crackers would be partitioned into 3 equal parts and shared as thirds.

I can visualize one way to model this scenario:



Each person gets 1 whole cracker and  $\frac{2}{3}$  of a cracker.