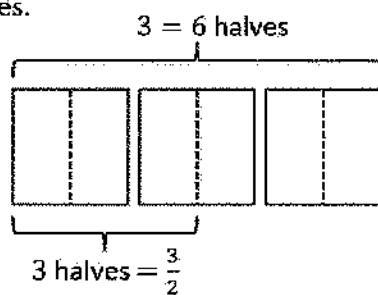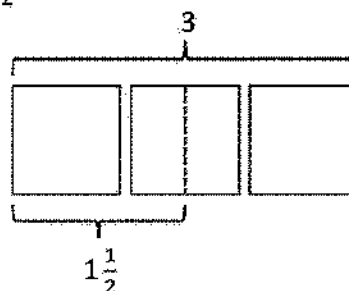## G5-M4-Lesson 3

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 *halves* $\div 2 =$ 3 *halves* | $\frac{3}{2}$ | $1\frac{1}{2}$ | $2\,\overline{)\;\begin{array}{l}1\frac{1}{2}\\ 3 \\ -2 \\ \hline 1\end{array}}$ | *Check:* $2 \times 1\frac{1}{2}$ $= 1\frac{1}{2} + 1\frac{1}{2}$ $= 3$ |

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.

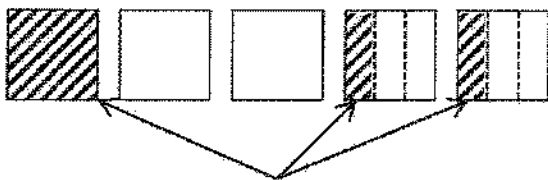$3 = 6$ halves

3 halves $= \frac{3}{2}$

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.

3

$1\frac{1}{2}$

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**Lesson 3:**       Interpret a fraction as division.

EUREKA MATH

| 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 *thirds* $\div 3 =$ 5 *thirds* | $\dfrac{5}{3}$ | $1\dfrac{2}{3}$ | $3 \overline{\smash{\big)}\begin{array}{l} 1\frac{2}{3} \\ 5 \\ -3 \\ \hline 2 \end{array}}$  Check: $3 \times 1\dfrac{2}{3}$ $= 1\dfrac{2}{3} + 1\dfrac{2}{3} + 1\dfrac{2}{3}$ $= 3\dfrac{6}{3}$ $= 3 + 2$ $= 5$ |

This time I am given the mixed number. I know that $1\dfrac{2}{3}$ is the same as $\dfrac{3}{3} + \dfrac{2}{3}$, which is equal to $\dfrac{5}{3}$.

I can think of $\dfrac{5}{3}$ 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 $\dfrac{2}{3}$ of a cracker.