

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Fill in the chart. The first one is done for you.

Division Expression	Unit Forms	Improper Fractions	Mixed Numbers	Standard Algorithm (Write your answer in whole numbers and fractional units. Then check.)
a. $4 \div 3$	12 thirds $\div 3$ = 4 thirds	$\frac{4}{3}$	$1\frac{1}{3}$	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <math display="block">  \begin{array}{r}  1\frac{1}{3} \\  3 \overline{) 4} \\  \underline{-3} \\  1  \end{array}  </math> </div> <div style="text-align: center;"> <p>Check</p> <math display="block">  \begin{aligned}  3 \times 1\frac{1}{3} &amp;= 1\frac{1}{3} + 1\frac{1}{3} + 1\frac{1}{3} \\  &amp;= 3 + \frac{3}{3} \\  &amp;= 3 + 1 \\  &amp;= 4  \end{aligned}  </math> </div> </div>
b. ____ $\div$ ____	____ fifths $\div 5$ = ____ fifths		$1\frac{2}{5}$	
c. ____ $\div$ ____	____ halves $\div 2$ = ____ halves			$2 \overline{) 7}$
d. $7 \div 4$		$\frac{7}{4}$		

2. A coffee shop uses 4 liters of milk every day.
- If there are 15 liters of milk in the refrigerator, after how many days will more milk need to be purchased? Explain how you know.
  - If only half as much milk is used each day, after how many days will more milk need to be purchased?
3. Polly buys 14 cupcakes for a party. The bakery puts them into boxes that hold 4 cupcakes each.
- How many boxes will be needed for Polly to bring all the cupcakes to the party? Explain how you know.
  - If the bakery completely fills as many boxes as possible, what fraction of the last box is empty? How many more cupcakes are needed to fill this box?

## Answer Key

1.
  - a. Answer provided
  - b.  $7 \div 5$ ; 35 fifths  $\div 5 = 7$  fifths;  $\frac{7}{5}$
  - c.  $7 \div 2$ ; 14 halves  $\div 2 = 7$  halves;  $\frac{7}{2}$ ;  $3\frac{1}{2}$
  - d. 28 fourths  $\div 4 = 7$  fourths;  $1\frac{3}{4}$
2.
  - a. 3; explanations will vary.
  - b. 7
3.
  - a. 4; explanations will vary.
  - b.  $\frac{1}{2}$ ; 2