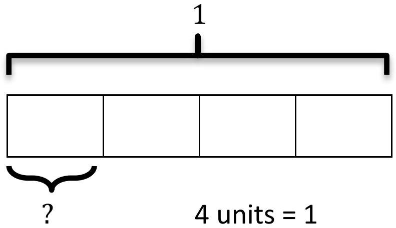
Name ______________________________ Date ________________

1. Draw a tape diagram to solve. Express your answer as a fraction. Show the addition sentence to support your answer. The first one is done for you.

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



4 units = 1

1 unit = 1 ÷ 4

$= \frac{1}{4}$

$$4 \overline{)1} \quad \text{quotient } 0\ \tfrac{1}{4};\ -0;\ 1$$

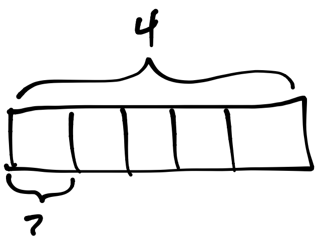
Check: $4 \times \frac{1}{4}$

$= \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

$= \frac{4}{4}$

$= 1$

b. $4 \div 5 =$ ___



5 units = 4

1 unit = 4 ÷ 5

$= \frac{4}{5}$

$$5 \overline{)4} \quad \text{quotient } 0\ \tfrac{4}{5};\ -0;\ 4$$

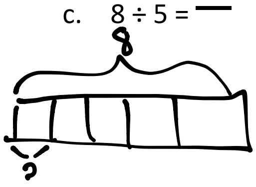
Check:

$5 \times \frac{4}{5} = \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5}$

$= \frac{20}{5}$

$= 4$

c. $8 \div 5 =$ ___



5 units = 8

1 unit = 8 ÷ 5

$= \frac{8}{5}$

$$5 \overline{)8} \quad \text{quotient } 1\ \tfrac{3}{5};\ -5;\ 3$$

check

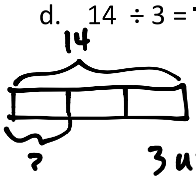
$5 \times 1\frac{3}{5} = 1\frac{3}{5} + 1\frac{3}{5} + 1\frac{3}{5} + 1\frac{3}{5} + 1\frac{3}{5}$

$= 5 + \frac{15}{5}$

$= 5 + 3$

$= 8$

d. $14 \div 3 =$ ___



3 units = 14

1 unit = $\frac{14}{3}$

$$3 \overline{)14} \quad \text{quotient } 4\ \tfrac{2}{3};\ -12;\ 2$$

Check

$3 \times 4\frac{2}{3} = 4\frac{2}{3} + 4\frac{2}{3} + 4\frac{2}{3}$

$= 12 + \frac{6}{3}$

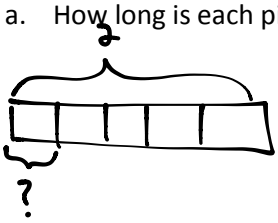
$= 12 + 2$

$= 14$

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

Division Expression	Fraction	Between which two whole numbers is your answer?	Standard Algorithm
a. $16 \div 5$	$\frac{16}{5}$	3 and 4	$3\ \frac{1}{5}$; $5\overline{)16}$; -15; 1
b. $3 \div 4$	$\frac{3}{4}$	0 and 1	$0\ \frac{3}{4}$; $4\overline{)3}$; -0; 3
c. $7 \div 2$	$\frac{7}{2}$	3 and 4	$3\ \frac{1}{2}$; $2\overline{)7}$; -6; 1
d. $81 \div 90$	$\frac{81}{90}$	0 and 1	$0\ \frac{81}{90}$; $90\overline{)81}$; -0; 81

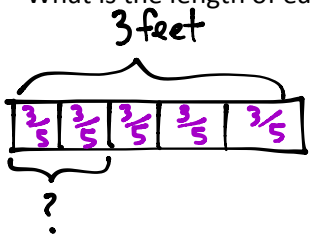
3. Jackie cut a 2-yard spool into 5 equal lengths of ribbon.
   a. How long is each piece of ribbon? Draw a tape diagram to show your thinking.



$2 \div 5 = \frac{2}{5}$

Each piece is $\frac{2}{5}$ yard long.

   b. What is the length of each ribbon in feet? Draw a tape diagram to show your thinking.

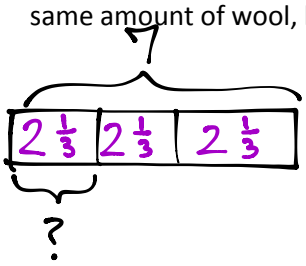


$3 \div 5 = \frac{3}{5}$

One unit is $\frac{3}{5}$ of a foot. So, two units is $\frac{6}{5}$ of a foot.

$\frac{6}{5} = 1\frac{1}{5}$ ft.

4. Baa Baa the black sheep had 7 pounds of wool. If he separated the wool into 3 bags, each holding the same amount of wool, how much wool would be in 2 bags?



$7 \div 3 = \frac{7}{3} = 2\frac{1}{3}$

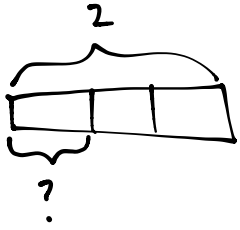
$3\overline{)7}$ $2\frac{1}{3}$, -6, 1

2 bags $= 2\frac{1}{3} + 2\frac{1}{3}$

$= 4\frac{2}{3}$

$4\frac{2}{3}$ pounds of wool

5. An adult sweater is made from 2 pounds of wool. This is 3 times as much wool as it takes to make a baby sweater. How much wool does it take to make a baby sweater? Use a tape diagram to solve.



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

A baby sweater requires $\frac{2}{3}$ pound of wool.