

*Due Monday 2/24/20

Write the equations that correctly represent the model

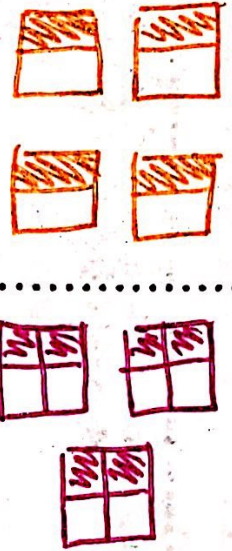


Addition Equation $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$

Multiplication Equation $\frac{1}{3} \times 4 = \frac{4}{3} = 1\frac{1}{3}$

Draw a fraction model for each equation below.

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



$3 \times \frac{2}{4} = \frac{6}{4} = 1\frac{1}{2}$



Write each improper fraction as a multiplication sentence

$\frac{14}{5} = 14 \times \frac{1}{5}$ OR $7 \times \frac{2}{5}$ OR $2 \times \frac{7}{5}$ OR $1 \times \frac{14}{5}$

$\frac{8}{3} = 8 \times \frac{1}{3}$ OR $4 \times \frac{2}{3}$ OR $2 \times \frac{4}{3}$

$\frac{12}{7} = 12 \times \frac{1}{7}$ OR $3 \times \frac{4}{7}$ OR $4 \times \frac{3}{7}$ OR $2 \times \frac{6}{7}$ OR $6 \times \frac{2}{7}$

Fill in the missing numbers

$5 \times \frac{1}{2} = \frac{5}{2}$

$8 \times \frac{1}{3} = \frac{8}{3}$

$2 \times \frac{1}{7} = \frac{2}{7}$

Circle the fractions that are multiples of $\frac{1}{3}$

- $\frac{6}{4}$
- $\frac{5}{6}$
- $\frac{16}{4}$
- $\frac{10}{6}$
- $\frac{12}{6}$

Circle the fractions that are multiples of $\frac{2}{3}$

- $\frac{6}{5}$
- $\frac{3}{3}$
- $\frac{4}{6}$
- $\frac{4}{3}$
- $\frac{6}{9}$
- $\frac{6}{3}$
- $\frac{8}{6}$

Amanda wrote the first three multiples of $\frac{1}{4}$ as $\frac{1}{2}, \frac{1}{3}$, and $\frac{1}{4}$.

What was Amanda's mistake? Explain how you know.

Amanda's mistake was that she inverted the numerator and denominator before multiplying.

The correct answer would be $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}$

(Show Ms. N!)

Circle the fractions that are multiples of $\frac{1}{3}$

Circle the fractions that are multiples of $\frac{2}{3}$

Kristin walked to a pond that was $\frac{3}{4}$ of a mile from her home. If she walked there and back 8 times, how many miles did she walk?

$(\frac{3}{4} + \frac{3}{4}) \times 8 = \frac{6}{4} \times 8 = \frac{48}{4} = 12 \text{ mi}$

Marty worked in the yard helping his dad for $\frac{1}{3}$ of an hour. His dad stayed out and work for 5 times longer. How long was Marty's dad outside working in the yard?

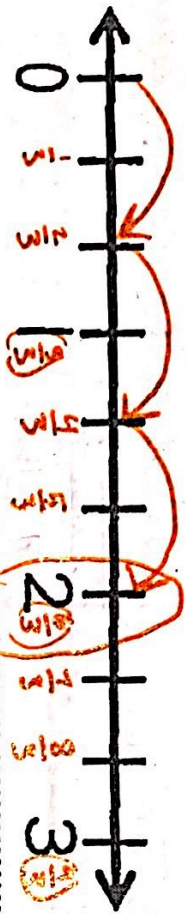
$\frac{1}{3} \times 5 = \frac{5}{3} = 1\frac{2}{3} \text{ hours}$ (or 1 hr 40 min)

Tuesday

Use the number line to model $9 \times \frac{1}{5} = \frac{9}{5}$ or $1\frac{4}{5}$



Use the number line to model $3 \times \frac{2}{3}$.



Tormund needs $\frac{3}{5}$ of a cup of butter to make one batch of cookies. How many cups of butter does he need to make 6 batches of cookies? Write an equation to

Solve $\frac{3}{5} \times 6 = \frac{18}{5} = 3\frac{3}{5}$ cups

Ricardo rides the bus to school. He spends $\frac{1}{8}$ of an hour in the morning and $\frac{1}{8}$ of an hour in the afternoon on the bus. How much time does Ricardo spend on the bus in one regular school week?

Write an equation $(\frac{1}{8} + \frac{1}{8}) \times 5 = \frac{2}{8} \times 5 = \frac{10}{8} = 1\frac{1}{4}$ hours or 1 hr. 15 min

Write the equations that correctly represent the model



Addition Equation $\frac{3}{4} + \frac{2}{4} = \frac{3}{4} + \frac{2}{4} + \frac{3}{4} + \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$

Multiplication Equation $\frac{3}{4} \times 5 = \frac{15}{4} = 3\frac{3}{4}$

Kierra ran $1\frac{1}{3}$ miles down her road before she turned around and ran back home. She did this 3 times. How far did Kierra run?

(Write an equation!)

$(1\frac{1}{3} + \frac{1}{3}) \times 3 = 2\frac{2}{3} \times 3 = 6\frac{6}{3} = 8$ miles

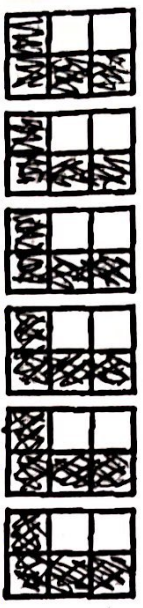
Explain how you found your answer. (show Ms. N.!) (complete sentence!)

First I added $1\frac{1}{3}$ (distance down the road) to $1\frac{1}{3}$ (distance back home) and got $2\frac{2}{3}$. Then

I multiplied that by 3 (times she did that) and found 2×3 is 6 and $\frac{2}{3} \times 3$ is 2, or 2 wholes. Last I added 6 and 2 to get 8 miles total.

Thursday

Write the equations that correctly represent the model 2



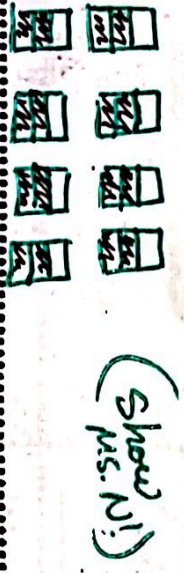
Addition Equation $\frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} + \frac{4}{5} = \frac{24}{5} = 4\frac{4}{5}$

Multiplication Equation $\frac{4}{5} \times 6 = \frac{24}{5} = 4\frac{4}{5}$

Charlie bought $\frac{2}{3}$ pound of chocolate for each of his 8 friends. How much chocolate did Charlie buy?

$\frac{2}{3} \times 8 = \frac{16}{3} = 5\frac{1}{3}$ lbs.

Draw a fraction model to the amount of chocolate Charlie bought.



Fill in the missing numbers.

$7 \times \frac{2}{8} = \frac{14}{8} = 1\frac{7}{4} = 2 \times \frac{3}{4} = \frac{6}{4}$

$15 \times \frac{1}{2} = \frac{15}{2} = 7\frac{1}{2} = 9 \times \frac{3}{5} = \frac{27}{5}$ (or $5\frac{2}{5}$)

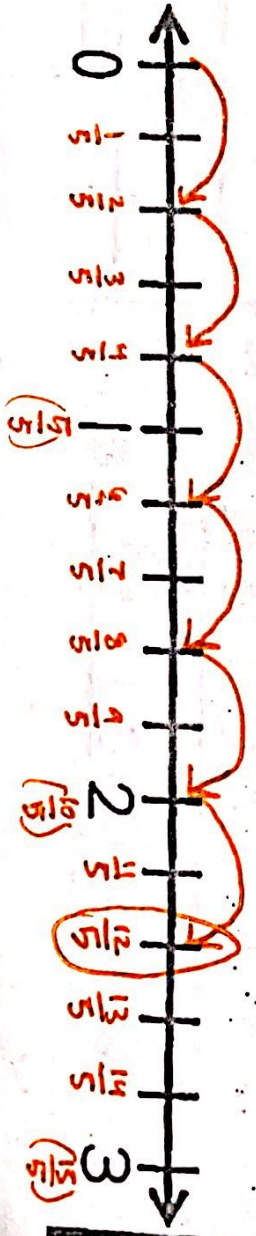
Samantha is making 3 gallons of lemonade and 5 gallons of fruit punch for a party. Each gallon of drink takes $\frac{4}{5}$ cup of sugar. What is the total amount of sugar Samantha will need for the drinks?

$(3+5) \times \frac{4}{5} = 8 \times \frac{4}{5} = \frac{32}{5} = 6\frac{2}{5}$ cups

Explain how you solved the problem.

First, I added 3 gallons of lemonade to 5 gallons of fruit punch, then I multiplied 8 gallons (total) by $\frac{4}{5}$ cup of sugar each to get $\frac{32}{5}$, or $6\frac{2}{5}$ cups of sugar in all.

Use the number line to model $6 \times \frac{2}{5} = \frac{12}{5} = 2\frac{2}{5}$



Circle the expressions that will result in a product that is a whole number.

$7 \times \frac{2}{7} = 2$ (circled)

$5 \times \frac{1}{4} = \frac{5}{4}$ (crossed out)

$12 \times \frac{5}{8} = \frac{60}{8} = 7\frac{4}{8} = 7\frac{1}{2}$ (crossed out)

$3 \times \frac{2}{3} = 2$ (circled)

$4 \times \frac{3}{4} = 3$ (circled)

$10 \times \frac{1}{8} = \frac{10}{8} = 1\frac{2}{8} = 1\frac{1}{4}$ (crossed out)

Circle the fractions that are multiples of $\frac{1}{4}$

$\frac{6}{2}$ (circled)

$\frac{4}{3}$ (circled)

$\frac{5}{4}$ (circled)

$\frac{12}{4}$ (circled)

$\frac{14}{5}$ (circled)

$\frac{24}{6}$ (circled)

$6 \times \frac{2}{5} = \frac{12}{5} = 2\frac{2}{5}$ (circled)

★ Any day (before Monday 2/24!)

Choose two strategies to solve the problem

$3,784 \div 5 = 756.8$

Show your work!

Long Division

$$\begin{array}{r} 5 \overline{) 3784} \\ \underline{-35} \\ 28 \\ \underline{-25} \\ 34 \\ \underline{-30} \\ 4 \end{array}$$

Partial Quotients

$$\begin{array}{r} 5 \overline{) 3784} \\ \underline{-3000} \\ 784 \\ \underline{-500} \\ 284 \\ \underline{-250} \\ 34 \\ \underline{-30} \\ 4 \end{array}$$

Model

$150,282 - 1048,342 = 101,940$

Seth has 2 cans of sodas. He buys 3 packs of 12 soda cans each. How many sodas does Seth have now?

$2 + (3 \times 12) = 2 + 36 = 38$ sodas

Write the related facts for 3, 5, and 15.

$3 \times 5 = 15$ $15 \div 5 = 3$
 $5 \times 3 = 15$ $15 \div 3 = 5$

When this number is divided by 6 the quotient is 47 with a remainder of 1. What is the number?

$283 \div 6 = 47r1$

Follow the pattern rule!

Complete the input/output table.

In	Out
1	$1 \times 5 = 5$
3	$3 \times 5 = 15$
6	$6 \times 5 = 30$
8	$8 \times 5 = 40$
11	$11 \times 5 = 55$

Reya is 10 years old. 3 months old today. How many months old is she? (HINT: There are 12 months in 1 year.)

$(10 \times 12) + 3 = 123$ months

Aron biked 4 miles on Saturday. He biked twice as many miles on Sunday. How many miles did he bike both days?

$4 + (2 \times 4) = 4 + 8 = 12$ miles

Brody hit two home runs in his first baseball game of a tournament. He hit five times as many home runs in the tournament than he did that first game. How many home runs did Brody hit? Use the bar model to help you solve.

1st game (at tournament) 2

Tournament

2	2	2	2	2
(1st game)				

$2 \times 5 = 10$ home runs