

Monday

12.10

Will planted $\frac{5}{6}$ of his garden in corn and potatoes.

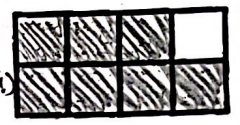
Part A - Which of the following show possible combinations for Will's garden? (show your work!)

- $\frac{4}{6} + \frac{2}{6} = \frac{6}{6}$ X
- $\frac{1}{6} + \frac{4}{6} = \frac{5}{6}$ ✓
- $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$ ✓
- $\frac{3}{6} + \frac{3}{6} = \frac{6}{6}$ X

Part B - (Draw a model) showing another possible combination for Will's garden of corn and potatoes. (different)

Show Ms. N!
(3 points)

Select the addition expressions that correctly decompose the fraction. (show your work)



- $\frac{2}{8} + \frac{2}{8} + \frac{3}{8} = \frac{7}{8}$ ✓
- $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{2}{8} = \frac{8}{8}$ X
- $\frac{3}{8} + \frac{3}{8} + \frac{1}{8} = \frac{7}{8}$ ✓
- $\frac{5}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{9}{8}$ X
- $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{7}{8}$ ✓

Mrs. Hearth was thinking of three fractions. The sum of her fractions is $\frac{7}{10}$. What could her fractions be?

- (possible ways)
- $\frac{1}{10} + \frac{1}{10} + \frac{5}{10} = \frac{7}{10}$
 - $\frac{1}{10} + \frac{2}{10} + \frac{4}{10} = \frac{7}{10}$
 - $\frac{1}{10} + \frac{3}{10} + \frac{3}{10} = \frac{7}{10}$
 - $\frac{2}{10} + \frac{2}{10} + \frac{3}{10} = \frac{7}{10}$

Decompose $\frac{4}{5}$ in three different ways.

- $\frac{4}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
- $\frac{4}{5} = \frac{1}{5} + \frac{2}{5} + \frac{1}{5}$ (possible ways)
- $\frac{4}{5} = \frac{1}{5} + \frac{3}{5}$
- $\frac{4}{5} = \frac{2}{5} + \frac{2}{5}$

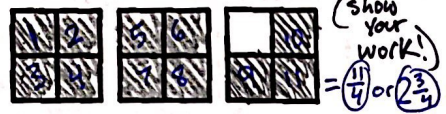
Which of the following does not equal $\frac{9}{12}$? (show your work!)

- $\frac{3}{12} + \frac{6}{12} = \frac{9}{12}$ ✓
- $\frac{4}{12} + \frac{5}{12} = \frac{9}{12}$ ✓
- $\frac{3}{12} + \frac{3}{12} = \frac{6}{12}$ X
- $\frac{8}{12} + \frac{1}{12} = \frac{9}{12}$ ✓

NF3

Tuesday

Select the addition expressions that do not equal the mixed number shown below.



- $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{12}{4} \times$
- $\frac{2}{4} + \frac{2}{4} + \frac{4}{4} + \frac{1}{4} + \frac{2}{4} = \frac{11}{4} \checkmark$
- $\frac{1}{4} + \frac{1}{4} + \frac{4}{4} + \frac{4}{4} = \frac{10}{4} \times$
- $\frac{4}{4} + \frac{4}{4} + \frac{3}{4} = \frac{11}{4} \checkmark$
- $\frac{3}{4} + \frac{3}{4} + \frac{2}{4} + \frac{2}{4} + \frac{1}{4} = \frac{11}{4} \checkmark$

Decompose $1\frac{6}{10}$ in three different ways.

- $1\frac{6}{10} =$
 - $1\frac{6}{10} =$
 - $1\frac{6}{10} =$
- Show Ms. N (3 points)*

Kristoff has a $1\frac{3}{4}$ acre garden. He planted tomatoes, strawberries, and watermelons. He has more strawberries than tomatoes, and fewer tomatoes than watermelons.

$S > t, t < w$
 $1\frac{3}{4} = s + t + w$

Part A - Draw a diagram showing one of the possible ways Kristoff may have planted his garden. Label your diagram (with fractions and plant names).

Show Ms. N (3 points)

Part B - Write a number sentence for your drawing.

Show Ms. N (2 points)

Celia claims that $\frac{2}{4}$ can be decomposed into the addition of smaller fractions. She gives the expression $\frac{1}{2} + \frac{1}{2}$ as proof. Explain to Celia why she is incorrect.

Celia is incorrect because $\frac{1}{2}$ is equal to $\frac{2}{4}$, so it is not a smaller fraction; $\frac{1}{2} + \frac{1}{2} = \frac{2}{2}$ or 1 whole.

4NF3

4th Grade Homework - Week 24

Wednesday

Write an equation for the model.



$$\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$$

Travis and his friends ate $\frac{6}{8}$ of a cake. What fraction of the cake was left? (Write an equation.)

$$\frac{8}{8} - \frac{6}{8} = \frac{2}{8} \text{ (or } \frac{1}{4}) \text{ was left}$$

(Hint: Start with one whole.)

A recipe for peanut butter cookies calls for $2\frac{3}{8}$ cups of peanut butter. Angle has $1\frac{6}{8}$ cups of peanut butter. How much more peanut butter does Angle need to make the cookies?

$$2\frac{3}{8} - 1\frac{6}{8} \rightarrow 1\frac{11}{8} - 1\frac{6}{8} = \frac{5}{8} \text{ more cups}$$

Use \odot or \ominus to compare the amounts. (Show your work.)

$$\frac{4}{9} + \frac{1}{9} \odot 1 + \frac{2}{9} + \frac{3}{9}$$

$(\frac{5}{9}) \quad (\frac{5}{9})$

$$3\frac{3}{10} + 1\frac{6}{10} \ominus 2\frac{5}{10} + 1\frac{5}{10}$$

$(4\frac{9}{10}) \quad (3\frac{10}{10} = 4)$

$$8\frac{16}{5} - 4\frac{3}{5} \ominus 5\frac{3}{5} - 3\frac{1}{5}$$

$(3\frac{3}{5}) \quad (2\frac{2}{5})$

Before his baseball practice, Cam completed $\frac{5}{12}$ of his math homework. After his practice he completed $\frac{2}{12}$ more. How much more math homework does Cam need to finish? (Write an equation.)

$$\frac{12}{12} - \frac{5}{12} - \frac{2}{12} = \frac{5}{12} \text{ left}$$

(Start with one whole!)

Bernadette mopped all but $\frac{3}{10}$ of the kitchen floor. How much of the floor had she mopped?

(Write an equation.)

$$\frac{10}{10} - \frac{3}{10} = \frac{7}{10} \text{ has been mopped}$$

(Start with one whole!)

Write each number in standard form.

This question has 3 parts, A-C.

Lee's mother made lasagna for dinner. She cut the pan into 12 equal portions. Lee, his mother, his step-father, and his two sisters each ate some of the lasagna.

L	S	F	
L	S	F	
M	F		

- Lee ate $\frac{2}{12}$ of the lasagna.
- Lee's mother ate half as much as Lee ($\frac{1}{12}$).
- Lee's sisters each ate the same amount. Together they ate $\frac{2}{12}$ of the lasagna ($\frac{1}{12}$ each).
- Lee's step-father ate three times more than Lee's mother ($\frac{3}{12}$).

Part A - How much lasagna did Lee's mother eat? (Write an equation.)

$$\frac{2}{12} \times \frac{1}{2} = \frac{2}{24} = \frac{1}{12}$$

Part B - How much lasagna did Lee's step-father eat? (Write an equation.)

$$3 \times \frac{1}{12} = \frac{3}{12} \text{ (or } \frac{1}{4})$$

Part C - Was there any lasagna left over? Explain how you know. (Complete sentence.)

There was $\frac{4}{12}$ left because Lee ate $\frac{2}{12}$, his mother ate $\frac{1}{12}$, the sisters ate $\frac{2}{12}$, and his step-father ate $\frac{3}{12}$, which is $\frac{8}{12}$ eaten altogether. That leaves $\frac{4}{12}$ left.

4NF3

Spiral review

Complete the table	
	Rounded to

Complete the table.

Original Number	Rounded to the Ten Thousands Place	Rounded to the Tens Place
507,445	510,000	507,450
34,559	30,000	34,560
10,993	10,000	10,990
205,409	210,000	205,410

Find the difference.

$$607,899 - 45,776 = 562,123$$

Find the sum.

$$347,779 + 238,119 = 585,898$$

Write the equation as a (words) comparison statement. $5 \times 3 = 15$

- Possible answers:
- Fifteen is three times as many as five.
 - Three times more than five is fifteen.
 - Five times as much as three is fifteen.

* Show Ms. N. if different! (3 points)

Write each number in standard form (regular numerals)

eighty-four thousand, three hundred twenty-seven

$$84,327$$

two million, three hundred nine thousand, one hundred seventeen

$$2,309,117$$

Write yes or no for each of the following questions.

Is 24 a multiple of 3?

YES $(24 = 3 \times 8)$

Is 3 a factor of 51?

YES $(3 \times 17 = 51)$

Is 72 a composite number?

YES $(1 \times 72, 3 \times 24, 8 \times 9, 2 \times 36, 4 \times 18, 6 \times 12)$

Is 29 a prime number?

YES $(1 \times 29 \text{ only})$

(like knitting)

Granny Gilda is crocheting socks for her friends at the nursing home. She needs 3 skeins of yarn for each pair of socks. If she's making 68 pairs of socks, how many skeins of yarn will she need? (write an equation!)

$$68 \times 3 = 204$$

(pairs) (skeins each) (skeins total)

How many individual socks will Granny Gilda have crocheted when she's all done? (write an equation!)

$$68 \times 2 = 136 \text{ individual socks}$$

(pairs) (socks per pair)

Complete the equations with the missing numbers. (*Distributive property!)

$$8 \times 67 = (8 \times 60) + (8 \times 7)$$

$$648 \div 8 = (640 \div 8) + (8 \div 8)$$

$$56 \div 8 = 7$$

$$13 + 2 = 15$$

$$3 \times 12 = 36$$

$$24 \div 12 = 2$$

$$20 - 6 = 14$$

$$6 + 5 = 11$$