

Name \_\_\_\_\_

Key

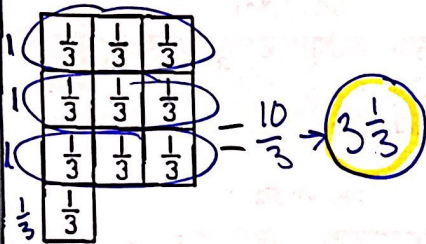
\* Use your notebook!  
 \* Ask for help!  
 \* Don't give up!  
 \* YOU GOT THIS!

Due Monday, 2/10/20

4<sup>th</sup> Grade Homework Week 23

126

Write the mixed number represented by the model



Convert each mixed number into an improper fraction

$3\frac{3}{8} = \frac{27}{8}$        $9\frac{7}{7} = \frac{67}{7}$   
 $6\frac{1}{4} = \frac{25}{4}$        $10\frac{1}{2} = \frac{21}{2}$

Circle the improper fractions that are equal to  $2\frac{1}{2}$

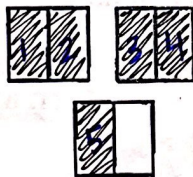
$\frac{10}{4}$        $\frac{20}{5}$        $\frac{5}{2}$        $\frac{32}{5}$   
 $\frac{12}{6}$        $\frac{30}{12}$        $\frac{75}{30}$        $\frac{43}{7}$

Monday

Karah says that  $\frac{18}{9}$  is greater than  $\frac{8}{4}$  because 9 is greater than 4. Is she correct? Explain. Karah is incorrect because both fractions are equivalent to 2 wholes. ( $18 \div 9 = 2$  and  $8 \div 4 = 2$ ).

\* Show me if you answered differently!

What improper fraction is shown below?



$\frac{5}{2}$

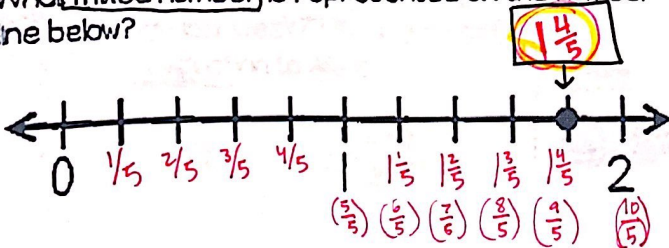
Use <, >, or = to compare.

$\frac{47}{6} < 8\frac{1}{6} = \frac{49}{6}$   
 $\frac{25}{8} = 3\frac{1}{8} > \frac{24}{8}$   
 $\frac{20}{9} = 2\frac{2}{9} < \frac{21}{9}$   
 $\frac{34}{5} > 5\frac{4}{5} = \frac{29}{5}$

Explain the steps to change a mixed number to an improper fraction.

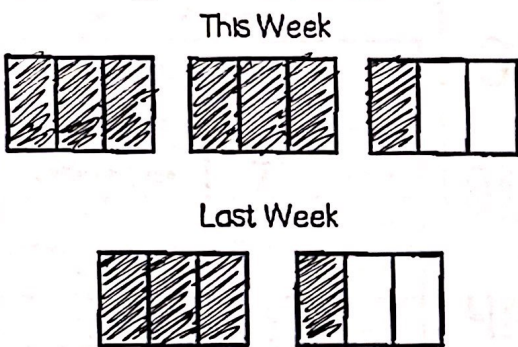
To change a mixed number to an improper fraction, multiply the whole number by the denominator of the fractional part, then add the numerator of the fractional part. Put that sum as the numerator, then keep the same denominator. (Your answer should be similar to this, but show me to check!)

What mixed number is represented on the number line below?



4NF3

James played outside for  $(2\frac{1}{3})$  hours this week and  $(1\frac{1}{3})$  hours last week.



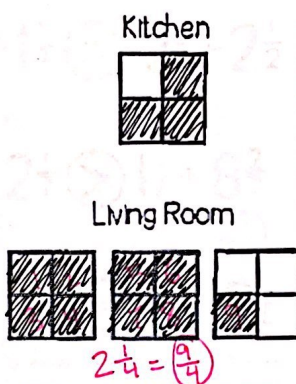
How many hours did James play outside both weeks? Use the model and write an equation to solve.

$$2\frac{1}{3} + 1\frac{1}{3} = 3\frac{2}{3} \text{ hours}$$

How many more hours did James play this week than last week? Use the model and write an equation to solve.

$$2\frac{1}{3} - 1\frac{1}{3} = 1 \text{ hour}$$

David used  $(\frac{3}{4})$  of a gallon of paint to paint the kitchen. He used  $(2\frac{1}{4})$  gallons of paint to paint the living room.



How much more paint did David use in the living room than the kitchen? Use the model and write an equation to solve.

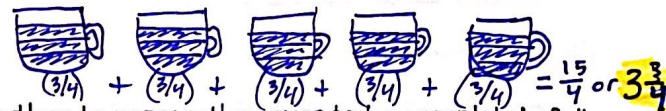
$$\frac{9}{4} - \frac{3}{4} = \frac{6}{4} \text{ or } 1\frac{2}{4} \text{ gallons more}$$

How many gallons of paint did David use in all? Use the model and write an equation to solve.

$$2\frac{1}{4} + \frac{3}{4} = 2\frac{4}{4} \text{ or } 3 \text{ gallons}$$

Farrch was helping her mom make hot cocoa for her family. She poured 5 mugs  $(\frac{3}{4})$  of the way full. Draw a model to represent the mugs of hot cocoa Farrch poured.

Hours may look different. Show me!



Her mom wanted her to repour the mugs to be completely full. How much more hot cocoa did Farrch pour into the mugs? Draw a model and write a number sentence to solve.

Model



Number Sentence

Multiple ways  $5 - 3\frac{3}{4} = 1\frac{1}{4}$

$$\frac{15}{4} + \frac{5}{4} = \frac{20}{4}$$

$$3\frac{3}{4} + 1\frac{1}{4} = 4\frac{4}{4} = 5$$

or just show me to check!

A group of 5 friends is going on a camping trip. The table below shows the supplies they are taking and the weight of each of the supplies.

Camping Supplies	
Flashlights	$1\frac{3}{8}$ pounds
Sleeping Bags	$7\frac{1}{8}$ pounds
Tent	$20\frac{4}{8}$ pounds
Food	$12\frac{6}{8}$ pounds
Water	$15\frac{2}{8}$ pounds

Two friends will carry the tent and the food. How much will their packs weigh together?

$$\underbrace{20\frac{4}{8}}_{\text{(tent)}} + \underbrace{12\frac{6}{8}}_{\text{(food)}} = 32\frac{10}{8} = 33\frac{2}{8} \text{ pounds}$$

The other friends will carry all of the other supplies. How much will the combined weight of their packs be?

$$\underbrace{1\frac{3}{8}}_{\text{(Flashlights)}} + \underbrace{7\frac{1}{8}}_{\text{(sleeping bags)}} + \underbrace{15\frac{2}{8}}_{\text{(water)}} = 23\frac{6}{8} \text{ lbs}$$

What is the total weight of the supplies the campers are taking?

$$33\frac{2}{8} + 23\frac{6}{8} = 56\frac{8}{8} = 57 \text{ lbs}$$

Use  $<$ ,  $>$ , or  $=$  to compare the amounts.

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

$$8\frac{5}{7} + 2\frac{1}{7} > 1\frac{6}{7} + 8\frac{2}{7}$$

$$4\frac{2}{5} + 7\frac{1}{5} > 6\frac{3}{5} + 3\frac{5}{5}$$

Select the expressions that are equal to  $2\frac{3}{4}$ .

$\frac{1}{4} + \frac{2}{4} + \frac{3}{4} + \frac{4}{4} = \frac{10}{4} = 2\frac{3}{4}$  X

$1 + 1\frac{1}{4} = 2\frac{1}{4}$  ✓

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

$1 + \frac{4}{4} + \frac{1}{4} = 1\frac{5}{4} = 2\frac{1}{4}$  ✓

$\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$  ✓

This question has 3 parts, A-C.

Parth's family was taking a trip to the mountains. On the way there it snowed. The trip there took  $2\frac{3}{5}$  hours to get to the mountains. On the way back, the weather was clear. The return trip took  $1\frac{1}{5}$  hours.

Part A - What was the total driving time for Parth's family trip to the mountains?

$$2\frac{3}{5} + 1\frac{1}{5} = 3\frac{4}{5} \text{ hours}$$

Part B - Parth thinks the difference in driving time is  $\frac{2}{5}$  hours. Is he correct? Explain.

Parth is Correct because

$$2\frac{3}{5} - 1\frac{1}{5} = 1\frac{2}{5}, \text{ or } \frac{7}{5} \text{ [OR]}$$

$$2\frac{3}{5} = \frac{13}{5}, 1\frac{1}{5} = \frac{6}{5}, \frac{13}{5} - \frac{6}{5} = \frac{7}{5}$$

Part C - When there is clear weather both ways, it only takes Parth's family  $2\frac{2}{5}$  hours to drive both ways of the trip. What is the difference between this time and the drive with snow on the way there (Part A answer)?

$$\underbrace{3\frac{4}{5}}_{\text{(part A)}} - 2\frac{2}{5} = 1\frac{2}{5} \text{ hours difference}$$

Jeffery, Kelli, DJ, Alissa, and Corey were at an ice cream buffet. The table below shows how many ice cream scoops each child ate.

Ice Cream Scoops	
Jeffery	$5\frac{2}{3}$ scoops
Kelli	4 scoops
DJ	$4\frac{2}{3}$ scoops
Alissa	$6\frac{1}{3}$ scoops
Corey	$3\frac{2}{3}$ scoops

Which two friends ate the same amount of ice cream?

$4 = 3\frac{2}{3}$   
Kelli and Corey

How much more ice cream did Alissa eat than DJ?

$6\frac{1}{3} - 4\frac{2}{3} = 1\frac{2}{3}$   
(Alissa) (DJ)

check:  
 $1\frac{2}{3} + 4\frac{2}{3} = 5\frac{4}{3} = 6\frac{1}{3}$

How much more ice cream did Jeffery eat than Corey?

$5\frac{2}{3} - 3\frac{2}{3} = 1\frac{2}{3}$   
(Jeffery) (Corey)

check:  
 $1\frac{2}{3} + 3\frac{2}{3} = 4\frac{4}{3} = 5\frac{2}{3}$

Use  $<$ ,  $>$ , or  $=$  to compare the amounts.

$9\frac{7}{8} - 7\frac{5}{8} < 5\frac{6}{8} - 3\frac{4}{8}$   
( $1\frac{2}{8}$ ) ( $2\frac{2}{8}$ )

$8\frac{5}{7} - 6\frac{1}{7} = 3\frac{6}{7} - 1\frac{2}{7}$   
( $2\frac{4}{7}$ ) ( $2\frac{4}{7}$ )

$12\frac{3}{10} - 6\frac{5}{10} < 8\frac{9}{10} - 2\frac{7}{10}$   
( $5\frac{8}{10}$ ) ( $6\frac{2}{10}$ )

Select the expressions that are equal to  $4\frac{3}{8}$

$7\frac{7}{8} - 2\frac{3}{8} = 5\frac{4}{8} \times$

$9\frac{13}{8} - 4\frac{7}{8} = 4\frac{6}{8} \times$

$6\frac{9}{8} - 2\frac{4}{8} = 3\frac{5}{8} \times$

$5\frac{4}{8} - \frac{4}{8} = 4\frac{4}{8} \times$

$12\frac{7}{8} - 8\frac{4}{8} = 4\frac{3}{8}$

Check each story problem that is represented by the equation below.

$10 - 8\frac{2}{3} = 1\frac{1}{3}$

Barbara had 10 boxes of books. She gave  $8\frac{2}{3}$  boxes to the foster home. How many boxes of books does Barbara have now?  $10 - 8\frac{2}{3} = 1\frac{1}{3}$  ✓

Ricky earned  $8\frac{2}{3}$  dollars in allowance for doing his chores. His sister Irma earned  $1\frac{1}{3}$  dollars for doing her chores. How much money did they earn in all?  $8\frac{2}{3} + 1\frac{1}{3} = 9\frac{3}{3} = 10$  ✗

Verthon bought a computer with 10 terabytes of memory. He downloaded his video games and now it has  $1\frac{2}{3}$  terabytes of memory left. How much memory did the video games take up?  $10 - \square = 1\frac{2}{3}$ ,  $\square = 8\frac{2}{3}$  ✓

Pepper and Salma wanted to save up 10 dollars to go to the movies. So far, they've saved  $8\frac{2}{3}$  dollars. How much more money do they need to save to reach their 10 dollar goal?

$10 = 8\frac{2}{3} + \square$  ✗ (no)  
 $10 - 8\frac{2}{3} = \square$  ✓ (yes)

can be either, depending on how you approach!