Subtracting Fractions With Re-Grouping NOTES

Making Improper Fractions

**Be very careful because sometimes the numbers you're working with get very large!!

EX:
$$8\frac{1}{5} \Rightarrow \frac{41}{5}$$

$$-3\frac{4}{5} \Rightarrow \frac{19}{5}$$

$$\frac{22}{5} = 4\frac{2}{5}$$

By Re-Grouping **You need to understand that

$$8\frac{1}{5} = 7 + 1\frac{1}{5} = 7\frac{6}{5}$$

EX:
$$8\frac{1}{5} \rightarrow \frac{36}{5}$$
 borrow from your

$$-3\frac{4}{5} \rightarrow \frac{34}{5}$$

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$$-3\frac{4}{5}$$

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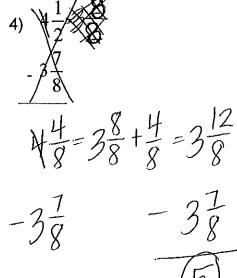
Solve:
1)
$$4\frac{1}{8} = \frac{33}{8}$$
 $-2\frac{3}{8} = \frac{19}{8}$
 $-\frac{19}{8} = 16 = 13$
 $-\frac{19}{8} = 18$

2)
$$\frac{32}{9} + \frac{49}{9} + \frac{2}{9} = 4\frac{11}{9}$$

$$-4\frac{7}{9} - 4\frac{7}{9}$$

$$-\frac{47}{9} - \frac{47}{9}$$

* Find common denominators!



Adding and Subtracting with Re-Grouping

7) While Audrey was sunbathing in her backyard, she listened to two playlists on her i-pod. The first playlist was $1\frac{1}{2}$ hours, the second playlist played for $\frac{3}{4}$ hour. How long did the music play in all?

8) Two Boy Scouts were walking along a trail in the mountains. On the first day they walked $9\frac{5}{8}$ kilometers. On the second day they walked $12\frac{1}{3}$ kilometers. How much further did they walk on the second day than the first?

9) What is the range of the heights?

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Student	Tom	Elizabeth	Jim	Michael	Jessica
Height (in feet)	$6\frac{1}{3}$	$5\frac{3}{4}$	$6\frac{1}{2}$	$5\frac{7}{12}$	$5\frac{5}{6}$

10) A recipe for Chex mix calls for $2\frac{1}{4}$ cups of

Chex, $2\frac{1}{2}$ cups of Cheerios and $\frac{2}{3}$ cups of pretzels.

What is the total amount of these ingredients?