E-Classroom		Name:				
		Gr 8	Date:	Time	45 mins	
CAPS Reference	1-4 Cor	nmon Frac	tions			
Topic1-4-2 Adding and subtracting fractions						
L. Got it? [	10 mins]					
۲ Some remine	lers about ad	ding and sub	<b>= = = = = = = = = = = = = = = = = = = </b>			
" The denomin	nators must a	lways be the	same.			
Example 1:	$: \frac{3}{11} + \frac{2}{11} $ (Because the denominators are both 11 we				calculate 3 + 2	
	$=\frac{7}{11}$ and use the denominator 11. NOT $\frac{7}{22}$ )					
Example 2:	$\frac{2}{3} + \frac{4}{5}$ (The denominators are NOT the same.)					
	$=\frac{2\times 5}{3\times 5}+\frac{2}{3}$	$= \frac{2 \times 5}{3 \times 5} + \frac{4 \times 3}{5 \times 3}$ (Convert the fractions to have the same				
	$=\frac{10}{15}+\frac{12}{15}$	$=\frac{10}{15} + \frac{12}{15}$ denominator.)				
	$= \frac{22}{15} = 1 \frac{7}{15}$					
Example 3:	$2\frac{2}{5} + 3\frac{1}{6}$					
	$=\frac{12}{5}+\frac{19}{6}$	) (Co	nvert to an imprope	r fraction.)		
	$= \frac{12 \times 6}{5 \times 6} +$	$\frac{19 \times 5}{6 \times 5}  \text{(Co}$	nvert the fractions to	o have the san	ne	
	$= \frac{72}{30} + \frac{95}{30}$	den	ominator.)			
11 11 11 11	$=\frac{167}{30}$					
	$= 5\frac{17}{30}$					
" "===========						



## 2. Go ahead! [25 mins]

2.1 Calculate each of the following using the above methods. Remember to: turn mixed numbers into "top-heavy" fractions. write your answers in their lowest terms.

- 2.1.2  $\frac{5}{8} \frac{3}{8}$  2.1.3  $\frac{3}{5} + \frac{1}{5}$ 2.1.1  $\frac{3}{7} + \frac{2}{7}$ 2.1.4  $\frac{6}{7} - \frac{2}{7}$  2.1.5  $\frac{3}{5} + \frac{4}{5} - \frac{2}{5}$  2.1.6  $\frac{11}{7} + \frac{4}{7} - \frac{6}{7}$ 2.1.7  $\frac{6}{11} + \frac{9}{11} + \frac{3}{11}$  2.1.8  $3\frac{3}{4} + 1\frac{1}{4}$  2.1.9  $2\frac{3}{7} + 3\frac{5}{7}$ **2.1.10**  $3\frac{4}{5} + 1\frac{3}{5}$  **2.1.11**  $3\frac{5}{6} - 2\frac{1}{6}$  **2.1.12**  $4\frac{2}{5} + 2\frac{2}{5}$ 2.2 Calculate each of the following. Remember to : turn mixed numbers into "top-heavy" fractions. make sure the denominators are the same write your answers in their lowest terms. 2.2.1  $\frac{5}{8}$  +  $2\frac{1}{4}$ **2.2.2**  $3\frac{3}{5} - \frac{7}{10}$  **2.2.3**  $3\frac{3}{8} + 1\frac{1}{4}$ **2.2.4**  $4\frac{5}{6} - 2\frac{2}{3}$ **2.2.6**  $4\frac{1}{6}-2\frac{1}{2}$ 2.2.5  $\frac{7}{10} + \frac{4}{5}$ 2.3 Calculate each of the following. Remember to: turn mixed numbers into "top-heavy" fractions. make sure the denominators are the same write your answers in their lowest terms. 2.3.3  $\frac{5}{2} + \frac{1}{2}$ 2.3.1  $\frac{2}{5} + \frac{1}{4}$ 2.3.2  $\frac{2}{2} + \frac{1}{4}$ **2.3.5**  $1\frac{2}{3} - \frac{2}{5}$ 2.3.6  $\frac{9}{10} - \frac{2}{7}$ 2.3.4  $\frac{7}{8} - \frac{1}{4}$ 2.3.9  $\frac{8}{9} + \frac{3}{5} - \frac{7}{10}$ 2.3.7  $\frac{1}{2} + \frac{7}{12} - \frac{1}{6}$  2.3.8  $\frac{8}{11} + \frac{2}{2} - \frac{8}{11}$ **2.3.10**  $3\frac{2}{5} + 2\frac{1}{4}$  **2.3.11**  $4\frac{3}{7} + 2\frac{1}{2}$ **2.3.12**  $2\frac{5}{7} - \frac{4}{9} + 2\frac{1}{2}$ **2.3.13**  $5\frac{5}{8} - 2\frac{2}{3}$  **2.3.14**  $3\frac{1}{5} + \frac{7}{10} - \frac{4}{15}$  **2.3.15**  $1\frac{3}{7} + 2\frac{5}{14} - 1\frac{13}{21}$ 
  - Check your work! [10 mins]

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