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Add and subtract mixed numbers with like denominators

	Add and subtract the following. Si	implify y	our answe	er.	
a.	$5\frac{1}{2}+6\frac{1}{2}$	d.	$7\frac{5}{7} + 11$	1	
			/	1	
-					
-					
L	$4\frac{10}{17} - 2\frac{6}{17}$		3 5 - 1 3	3	
b.	4 17 - 2 17	e.	56-16	5	
C.	$9\frac{1}{2} + 5\frac{1}{2}$	f.	12 9/25 - 6	5 4	
	4 4		25	23	
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Add and subtract mixed numbers with like denominators

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	Add and subtract the following. Simpl	lify	you	ır answer.
a.	$5\frac{1}{2}+6\frac{1}{2}$	d.		$7\frac{5}{7} + 11\frac{1}{7}$
u.	Since the denominators are the same,	G.		Since the denominators are the same,
	let's add whole numbers to whole numbers			let's add whole numbers to whole numbers
	and then fractions to fractions.			and then fractions to fractions.
	$5\frac{1}{2} + 6\frac{1}{2} = (5+6)\frac{1+1}{2} = 11\frac{2}{2}$			$7\frac{5}{7} + 11\frac{1}{7} = (7+11)\frac{5+1}{7} = 18\frac{6}{7}$
	but $\frac{2}{2} = 1$		-	- 5 - 1 - 1 - 6
	So, $11\frac{2}{2} = 11 + 1 = 12$		H	Therefore, $7\frac{5}{7} + 11\frac{1}{7} = 18\frac{6}{7}$
	Therefore, $2\frac{1}{2} + 6\frac{1}{2} = 12$	e.		3 - 1 - 3 1 - 3
				Since the denominators are the same,
b.	$4\frac{10}{17} - 2\frac{6}{17}$			let's subtract whole numbers from whole
	Since the denominators are the same,			numbers and then fractions from fractions.
	let's subtract whole numbers from whole			$3\frac{5}{6} - 1\frac{3}{6} = (3-1)\frac{5-3}{6} = 2\frac{2}{6}$
	numbers and then fractions from fractions			but $\frac{2}{6} = \frac{1}{3}$
	$4\frac{10}{17} - 2\frac{6}{17} = (4-2)\frac{0-6}{17} = 2\frac{4}{17}$			0 3
				Therefore, $3\frac{5}{6} - 1\frac{3}{6} = 2\frac{1}{3}$
	Therefore, $4\frac{10}{17} - 2\frac{6}{17} = 2\frac{4}{17}$			
	17 17 17	f.		$12 \frac{9}{25} + 6 \frac{4}{25}$
c.	$9\frac{1}{2} + 5\frac{1}{3}$			Since the denominators are the same,
	Since the denominators are the same,			let's subtract whole numbers from whole
	let's add whole numbers to whole numbers			numbers and then fractions from fractions.
	and then fractions to fractions.			$12 \frac{9}{25} - 6 \frac{4}{25} = (12-6) \frac{9-4}{25} = 6 \frac{5}{25} = 6 \frac{1}{5}$
	$9\frac{1}{2} + 5\frac{1}{2} = (9+5)\frac{1+1}{2} = 14\frac{2}{2}$			25 25 1 25 25 5
	but $\frac{2}{2} = 1$			Therefore, $12 \frac{9}{25} - 6 \frac{4}{25} = 6 \frac{1}{5}$
	So, $14\frac{2}{2} = 14 + 1 = 15$			25 25 5
	Therefore, $9\frac{1}{2} + 5\frac{1}{2} = 15$			
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