

## Notes 2-5

Unit 1

## Add/Subtract MIXED Fractions

Unit 2

## ADDING Mixed Numbers:

$$\text{Ex. 1: } 6\frac{1}{8} + 2\frac{5}{8} = 8\frac{6+2}{8} = 8\frac{8}{8} = 9$$

$$\text{Ex. 4: } 7 + 2\frac{3}{8} = \boxed{9\frac{3}{8}}$$

$$\text{Ex. 2: } 2\frac{2}{5} + 1\frac{4}{5} = 3\frac{\boxed{6}}{\boxed{5}} \rightarrow 1\frac{1}{5} + 3 = \boxed{4\frac{1}{5}}$$

$$\text{Ex. 5: } -8\frac{1\cdot 3}{2\cdot 3} - 2\frac{2\cdot 2}{3\cdot 2} = \boxed{-11\frac{1}{6}}$$

$$-8\frac{3}{6} - 2\frac{4}{6} = -10\frac{7}{6} \rightarrow 1\frac{1}{6}$$

$$\text{Ex. 3: } 4\frac{1}{6} + 3\frac{2\cdot 2}{3\cdot 2} = 4\frac{1}{6} + 3\frac{4}{6} = \boxed{7\frac{5}{6}}$$

$$\text{Ex. 6: } -5\frac{2\cdot 2}{7\cdot 2} + \left(-6\frac{3}{14}\right) = -5\frac{4}{14} + \left(-6\frac{3}{14}\right) = -11\frac{7}{14} = \boxed{-11\frac{1}{2}}$$

## SUBTRACTING Mixed Numbers: \* Do little fraction first! Then whole #

$$\text{Ex. 7: } 13\frac{7}{8} - 9\frac{3\cdot 2}{4\cdot 2} = 13\frac{7}{8} - 9\frac{6}{8} = \boxed{4\frac{1}{8}}$$

$$\text{Ex. 9: } 4\frac{1}{3} + 7\frac{2}{3} = \text{Answer is } \boxed{-3\frac{1}{3}}$$

$$7\frac{2}{3} - 4\frac{1}{3} = 3\frac{1}{3}$$

$$\text{Ex. 8: } 3\frac{5\cdot 2}{7\cdot 2} - 2\frac{3}{14} = 3\frac{10}{14} - 2\frac{3}{14} = 1\frac{7}{14} = \boxed{1\frac{1}{2}}$$

$$\text{Ex. 10: } 1\frac{5}{12} + \left(-8\frac{3}{4}\right) = \text{Answer is a } -\# \boxed{-7\frac{1}{3}}$$

$$8\frac{3\cdot 3}{4\cdot 3} - 1\frac{5}{12} = 8\frac{9}{12} - 1\frac{5}{12} = 7\frac{4}{12} = 7\frac{1}{3}$$

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Int 1

Add/Subtract MIXED Fractions

Unit 2

**BORROWING in Subtraction:** Story of Pencil Packs. 8 pencils per pack

Ex. 11:  $3\frac{2}{8} - 1\frac{3}{8} =$

Have 3 whole packs & 2 extra pencils.  
Want to give away 1 pack & 3 extra pencils.



Have left: 1 pack & 7/8 pencils

Ex. 12:  $4\frac{1}{8} - 2\frac{7}{8} =$   
 $4\frac{1}{8} - 2\frac{7}{8}$  can't do  $4 - 7!$  so, we borrow!

$3\frac{12}{8} - 2\frac{7}{8} = \boxed{1\frac{5}{8}}$

Ex. 15:  $8 - 3\frac{5}{8} =$

$8\frac{8}{8} - 3\frac{5}{8} = \boxed{5\frac{3}{8}}$

Ex. 13:  $7 - 2\frac{3}{8} =$

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

Ex. 16:  $2\frac{3}{4} - 5\frac{3}{8} =$  Answer is a -#

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

$4\frac{11}{8} - 2\frac{6}{8} = \boxed{2\frac{5}{8}}$

Ex. 14:  $5\frac{1}{8} - 3\frac{5}{8} =$

$4\frac{9}{8} - 3\frac{5}{8} = 1\frac{4}{8} = \boxed{1\frac{1}{2}}$

Ex. 17:  $-3\frac{5}{6} + 7\frac{5}{9} =$  Answer is a -#

$7\frac{5}{9} - 3\frac{5}{6} =$

$7\frac{10}{18} - 3\frac{15}{18} =$

$6\frac{28}{18} - 3\frac{15}{18} = \boxed{3\frac{13}{18}}$