

Hw
6.9.21

Ex. 9(B)

Date _____
Page _____

3. Simplify.

$$4. 10\frac{5}{6} - 7\frac{2}{3} + 8\frac{1}{3} - 5\frac{1}{2}$$

$$= 10\frac{5}{6} + 8\frac{1}{3} - 7\frac{2}{3} - 5\frac{1}{2}$$

$$= \frac{65}{6} + \frac{25}{3} - \frac{23}{3} - \frac{11}{2}$$

$$= \frac{65 + 50 - 46 - 33}{6}$$

$$= \frac{115 - 46 - 33}{6} = \frac{36}{6} = 6$$

$$9. 5\frac{5}{12} - 6 + 8 - 5\frac{3}{5}$$

$$5\frac{5}{12} - 8 - 6 - 5\frac{3}{5}$$

$$\frac{65}{12} + \frac{8}{1} - \frac{6}{1} - \frac{28}{5}$$

$$= \frac{325 + 480 - 360 - 336}{60}$$

$$= \frac{805 + 360 - 336}{60} =$$

$$= \frac{109}{60}$$

h. $10\frac{1}{4} + 6\frac{3}{8} - 15 + 1\frac{1}{2}$

$$10\frac{1}{4} + 15 - 6\frac{3}{8} - 1\frac{1}{2}$$

$$\frac{41}{4} + \frac{151}{1} - \frac{51}{8} - \frac{3}{2}$$

$$= \frac{821 + 120 - 408 - 12}{8}$$

$$= \frac{202 + 408 - 12}{8}$$

$$= \frac{782}{8}$$

i. $25 - 20 \frac{1}{2} + 15 \frac{3}{5} - 5$

$$= 25 + 15 \frac{3}{5} - 20 \frac{1}{2} - 5$$

$$= \frac{25}{1} + \frac{78}{5} - \frac{41}{2} - \frac{5}{1}$$

$$= \frac{250 + 156 - 205 - 50}{10}$$

$$= \frac{406 - 205 - 50}{10}$$

$$= \frac{201}{10}$$

$$j. \frac{9}{14} - 1\frac{2}{7} + 4\frac{3}{7} - 1\frac{2}{21}$$

$$= \frac{9}{14} + 4\frac{3}{7} - 1\frac{2}{7} - 1\frac{2}{21}$$

$$= \frac{9}{14} + \frac{31}{7} - \frac{9}{7} - \frac{14}{21}$$

$$= \frac{27 + 186 - 54 - 28}{42}$$

$$= \frac{213 - 54 - 28}{42}$$

$$= \frac{141}{42}$$