



Warm Up Grade 8

Jan. 21, 2018



Evaluate.

$$1) 3\frac{5}{7} + \frac{7}{6}$$

$$\begin{array}{r} 26 \times 6 + 7 \times 7 \\ \hline 7 \times 6 \quad 6 \times 7 \end{array}$$

Need C.D.

$$\frac{156}{42} + \frac{49}{42}$$

$$= \frac{205}{42}$$

$$= 4\frac{37}{42}$$

B/c  $4 \times 42 = 168$   
Remainder  $205 - 168 = 37$

$$2) 4\frac{1}{9} - 1\frac{3}{4}$$

Change to Improper

$$\frac{37 \times 4}{9 \times 4} - \frac{7 \times 9}{4 \times 9}$$

Need C.D

$$\frac{148}{36} - \frac{63}{36}$$

$$= \frac{85}{36}$$

Change to Mixed

$$= 2\frac{13}{36}$$

OR

$$3\frac{5}{7} + \frac{7}{6}$$

$$3\left(\frac{5}{7}\right) + 1\left(\frac{7}{6}\right)$$

Need C.D

$$3\frac{30}{42} + 1\frac{7}{42}$$

$$4\frac{37}{42}$$

## sheet 153 - Adding/subtracting Mixed Numbers Homework Solutions

$$\begin{aligned} 1. \quad & 2\frac{3}{10} + 1\frac{1}{10} \\ & = 3\frac{4}{10} \\ & = 3\frac{2}{5} \end{aligned}$$

$$\begin{aligned} b) \quad & 1\frac{3}{5} + \frac{4}{5} \\ & 1\frac{7}{5} \quad \frac{7}{5} = 1\frac{2}{5} \\ & 2\frac{2}{5} \end{aligned}$$

$$\begin{aligned} c) \quad & 2\frac{2}{3} + 1\frac{1}{4} \\ & 2+1 + \frac{2}{3} + \frac{1}{4} \\ & 3 + \frac{8}{12} + \frac{3}{12} \\ & 3\frac{11}{12} \end{aligned}$$

$$\begin{aligned} d) \quad & 6\frac{3}{4} + 2\frac{1}{2} \\ & 6\frac{3}{4} + 2\frac{2}{4} \\ & 8\frac{5}{4} \\ & 9\frac{1}{4} \end{aligned}$$

$$\begin{aligned} e) \quad & 8\frac{2}{5} + 2\frac{3}{10} \\ & \frac{42}{5} + \frac{23}{10} \\ & \frac{84}{10} + \frac{23}{10} \\ & \frac{107}{10} \end{aligned}$$

$$\begin{aligned} f) \quad & 1\frac{7}{12} + 2\frac{3}{5} \\ & 1+2 + \frac{7}{12} + \frac{3}{5} \\ & 3 + \frac{35}{60} + \frac{36}{60} \\ & 3\frac{71}{60} = 4\frac{11}{60} \\ & 3 + 1\frac{11}{60} \end{aligned}$$

$$\begin{aligned} g) \quad & 5\frac{2}{5} + 1\frac{3}{5} \\ & 6\frac{5}{5} \\ & = 7 \end{aligned}$$

$$\begin{aligned} h) \quad & 3\frac{4}{5} + 4\frac{3}{4} \\ & 3+4 + \frac{4}{5} + \frac{3}{4} \\ & 7\frac{20}{20} + \frac{15}{20} \\ & 7\frac{31}{20} \\ & 8\frac{11}{20} \end{aligned}$$

$$\begin{aligned} i) \quad & 2\frac{2}{3} + 1\frac{7}{10} \\ & 2\frac{20}{30} + 1\frac{21}{30} \\ & 3\frac{41}{30} \\ & 4\frac{11}{30} \end{aligned}$$

Sheet 153 - Adding/subtracting Mixed Number Homework Solutions

$$2a) 1\frac{3}{4} + \frac{1}{4} + 2\frac{1}{2}$$

$$\underbrace{1\frac{3}{4} + \frac{1}{4}}_2 + 2\frac{1}{2}$$

$$\underbrace{2 + 2\frac{1}{2}}_{4\frac{1}{2}}$$

or

$$1\frac{3}{4} + \frac{1}{4} + 2\frac{1}{2}$$

$$1+2 + \frac{3}{4} + \frac{1}{4} + \frac{1}{2}$$

$$3 + 1 + \frac{1}{2}$$

$$4\frac{1}{2}$$

$$1\frac{3}{4} + \frac{1}{4} + 2\frac{1}{2}$$

$$\frac{7}{4} + \frac{1}{4} + \frac{5}{2}$$

$$= \frac{7}{4} + \frac{1}{4} + \frac{10}{4}$$

$$= \frac{18}{4}$$

$$= 4\frac{2}{4} \text{ Reduce}$$

$$= 4\frac{1}{2}$$

2

$$b) 1\frac{9}{10} + 3\frac{1}{2} + 2\frac{3}{5}$$

$$1\frac{9}{10} + 3\frac{5}{10} + 2\frac{6}{10}$$

$$6\frac{20}{10}$$

$$6 + 2$$

$$8$$

$$\text{OR } 1\frac{9}{10} + 3\frac{1}{2} + 2\frac{3}{5}$$

$$\frac{19}{10} + \frac{35}{10} + \frac{26}{10}$$

$$\frac{80}{10} = 8$$

$$\begin{aligned}
 & 2 \quad c) 2\frac{5}{12} + 1\frac{2}{3} + 4\frac{1}{2} \\
 & = 2\frac{5}{12} + 1\frac{8}{12} + 4\frac{6}{12} \\
 & = \underbrace{2+1+4}_{7} + \underbrace{\frac{5}{12} + \frac{8}{12} + \frac{6}{12}}_{\frac{19}{12}} \\
 & = 7 + 1\frac{7}{12} \\
 & = 8\frac{7}{12}
 \end{aligned}$$

OR

$$2\frac{5}{12} + 1\frac{2}{3} + 4\frac{1}{2}$$

$$\frac{29}{12} + \frac{5 \times 4}{3 \times 4} + \frac{9 \times 6}{2 \times 6}$$

$$\frac{29}{12} + \frac{20}{12} + \frac{54}{12}$$

$$= \frac{103}{12}$$

$$= 8\frac{7}{12}$$

$$\begin{aligned}
 & 2 \quad d) 3\frac{3}{4} + \frac{1}{3} + 2\frac{1}{2} \\
 & 3\frac{9}{12} + \frac{4}{12} + 2\frac{6}{12} \\
 & 5\frac{19}{12} \\
 & 6\frac{7}{12} \quad (\frac{79}{12})
 \end{aligned}$$

OR

$$3\frac{3}{4} + \frac{1}{3} + 2\frac{1}{2}$$

$$\frac{15}{4} + \frac{1}{3} + \frac{5}{2}$$

$$\frac{45}{12} + \frac{4}{12} + \frac{30}{12}$$

$$\frac{79}{12}$$

$$= 6\frac{7}{12}$$

sheet 153 - Adding/subtracting Mixed Number **Homework Solutions**

3 a)  $2\frac{3}{5} - 1\frac{1}{4}$   
 $2\frac{12}{20} - 1\frac{5}{20}$   
 $1\frac{7}{20}$

b)  $1\frac{2}{3} - 2$   
 $1\frac{4}{6} - 2\frac{6}{6}$   
 $1\frac{4}{6} - 2\frac{6}{6}$

\*c)  $3 - 2\frac{1}{6}$   
 $\frac{6}{6} - 1\frac{1}{6}$   
 $\frac{5}{6}$

d)  $22\frac{1}{6} - 4\frac{5}{6}$   
 $21\frac{7}{6} - 4\frac{5}{6}$   
 $17\frac{2}{6}$  or  $17\frac{1}{3}$  ( $\frac{52}{3}$ )

$\frac{132}{6} - \frac{29}{6}$   
 $\frac{103}{6}$  ✓  
 $17\frac{2}{6}$   
 $17\frac{1}{3}$

$22\frac{1}{6} - 4\frac{5}{6}$   
 $22 - 4 = 18$   
 $\frac{1}{6} - \frac{5}{6}$   
 $17$   
 $17$   
 $1\frac{1}{6} - \frac{5}{6}$   
 $\frac{7}{6} - \frac{5}{6}$

can't be done  
 So need to borrow from whole

$17\frac{2}{6}$   
 $17\frac{1}{3}$

sheet 153 - Adding/subtracting Mixed Number Homework Solutions

4. a)  $2\frac{3}{4} + 3\frac{3}{8} + 2\frac{1}{2}$

$2\frac{6}{8} + 3\frac{3}{8} + 2\frac{4}{8}$

$7\frac{13}{8}$

$7 + 1\frac{5}{8} = 8\frac{5}{8}$  (69)

b)  $10 - 8\frac{5}{8}$

$2 - \frac{5}{8}$

$\frac{2 \times 8}{8} - \frac{5}{8} = \frac{11}{8}$

5 a)  $1\frac{5}{6} + 2\frac{1}{6}$   
 $1\frac{5}{6} + 2\frac{1}{6}$   
 $3\frac{6}{6}$  (113)

b)  $2\frac{1}{6} - 1\frac{5}{6}$   
 $\frac{6}{6} - \frac{5}{6}$   
 $\frac{1}{6}$

$2 - 1$   
 $1$   
 $0$

$\frac{1 \times 5}{6 \times 5} - \frac{3 \times 6}{5 \times 6}$   
 $\frac{5}{30} - \frac{18}{30}$   
 Need borrow  
 $\frac{5}{30} - \frac{18}{30}$   
 $\frac{35}{30} - \frac{18}{30} = \frac{17}{30}$

c)  $5 - 3\frac{2}{3}$   
 $2 - \frac{2}{3}$   
 $1\frac{2}{3}$

## Quiz Wednesday

Work Period

Extra Practice Review of Grade 7  
MIXED UP



Percent of a number review



## Attachments

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Extra Practice 1 GRADE 8 GRade 7 Review.docx