



Warm Up Grade 8

Dec. 11, 2017



Evaluate.

$$\begin{aligned}
 1) \quad & 3 \frac{5}{7} + \frac{7}{6} \\
 & \frac{26 \times 6}{7 \times 6} + \frac{7 \times 7}{6 \times 7} \\
 & \frac{156}{42} + \frac{49}{42} \\
 & = \frac{205}{42} \\
 & = 4 \frac{37}{42}
 \end{aligned}$$

OR

$$\begin{aligned}
 & 3 \frac{5}{7} + \frac{7}{6} \\
 & \underbrace{\frac{5}{7} + \frac{7}{6}}_{\text{C.D}} \\
 & \frac{30}{42} + \frac{49}{42} \\
 & 3 \frac{79}{42} \\
 & 3 + 1 \frac{37}{42} \\
 & 4 \frac{37}{42}
 \end{aligned}$$

$$\begin{aligned}
 2) \quad & 4 \frac{1}{9} - 1 \frac{3}{4} \\
 & \frac{37 \times 4}{9 \times 4} - \frac{7 \times 9}{4 \times 9} \quad \text{Need C.D} \\
 & \frac{148}{36} - \frac{63}{36} \\
 & = \frac{85}{36} \\
 & = 2 \frac{13}{36}
 \end{aligned}$$

sheet 153 - Adding/subtracting Mixed Numbers Homework Solutions

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

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

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

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

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

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

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

$$\begin{aligned} h) \quad & 3\frac{4}{5} + 4\frac{3}{4} \\ & 3 + 4 + \frac{4}{5} + \frac{3}{4} \\ & 7\frac{20}{20} + \frac{15}{20} \\ & 7\frac{35}{20} \\ & 8\frac{11}{20} \end{aligned}$$

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

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

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

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

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

$4\frac{1}{2}$

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

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

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

$= \frac{18}{4}$

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

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

2

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

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

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

$$6 + 2$$

$$8$$

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

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

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

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

OR

$$2\frac{5}{12} + 1\frac{2}{3} + 4\frac{1}{2} \\
 \frac{29}{12} + \frac{5 \times 4}{3 \times 4} + \frac{9 \times 6}{2 \times 6}$$

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

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

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

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

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

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

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
 17
 17
 $\frac{1}{6} - \frac{5}{6}$
 $1\frac{1}{6} - \frac{5}{6}$
 $\frac{7}{6} - \frac{5}{6}$
 $17\frac{2}{6}$
 $17\frac{1}{3}$

can't be done
 So need to borrow from whole

sheet 153 - Adding/subtracting Mixed Number Homework Solutions

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

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

$7\frac{13}{8}$

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

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

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

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

$\frac{16}{8} - \frac{5}{8} = \frac{11}{8}$

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

$1\frac{18}{30} + 2\frac{5}{30}$

$3\frac{23}{30} \left(\frac{113}{30}\right)$

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

$\frac{13}{6} - \frac{8}{3}$
 $\frac{65}{30} - \frac{48}{30}$
 $\frac{17}{30}$

$2 - 1$
 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) $5 - 3\frac{23}{30}$

$2 - \frac{23}{30}$

$1\frac{7}{30}$

Quiz Tomorrow

Work Period

Extra Practice Review of Grade 7
MIXED UP



Attachments

Extra Practice 1 GRADE 8 GRade 7 Review.docx