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1) a) $\frac{5}{4} + \frac{3}{4} \cdot \frac{1}{6} \Rightarrow \frac{5}{4} + \frac{3}{24} \Rightarrow \frac{5}{4} + \frac{1}{8} \rightarrow \frac{40+4}{32}$

$\frac{44}{32} \Rightarrow \frac{11}{8}$

b.) $\frac{2}{9} - \frac{5}{6} : \frac{4}{5} \rightarrow \frac{2}{9} - \frac{15}{24} \rightarrow \frac{48-135}{216} = \frac{-87}{216} = -\frac{29}{72}$

c.) $-\frac{3}{8}\left[3 \cdot \frac{3}{5} - \left(\frac{17}{20} \cdot \frac{1}{1}\right) \cdot \left(\frac{1}{3} \cdot \frac{3}{1}\right)\right]$

$-\frac{3}{8}\left[\frac{3}{1} - \frac{3}{5} \cdot \left(\frac{17}{20} \cdot \frac{1}{1}\right) \cdot \left(\frac{1-9}{3}\right)\right]$

$-\frac{3}{8}\left[\frac{3}{1} - \frac{3}{5} \cdot \left(\frac{-3}{20}\right) \cdot \left(\frac{-8}{3}\right)\right]$

$-\frac{3}{8}\left[\frac{3}{1} - \frac{3}{5} - \frac{24}{60}\right] \Rightarrow -\frac{3}{8} \cdot \left(\frac{3}{1} \cdot \frac{3}{5} - \frac{2}{5}\right)$

$-\frac{3}{8}\left(\frac{15-3-2}{5}\right) \Rightarrow -\frac{3}{8} \cdot \frac{10}{3} \rightarrow -\frac{3}{8} \cdot \frac{2}{1} = -\frac{3}{4}$

d). $\frac{5}{12} - \frac{7}{3} : \left(\frac{4}{3} \cdot \frac{2}{1}\right) \Rightarrow \frac{5}{12} \cdot \frac{7}{3} : \left(\frac{4+6}{3}\right) \rightarrow \frac{5}{12} - \frac{7}{3} : \frac{10}{3}$

$\Rightarrow \frac{5}{12} - \frac{21}{30} \Rightarrow \frac{5}{12} \frac{43}{10} \Rightarrow \frac{50-84}{120} = -\frac{34}{120} = \frac{17}{60}$

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f) $\frac{11}{6} \cdot \frac{5}{2} - \frac{7}{25} = \frac{22}{30} - \frac{7}{25} \rightarrow \frac{550 - 210}{750} = \frac{340}{750}$

$\rightarrow \frac{34}{75}$

e) $\frac{3}{8} \div \frac{5}{4} : \frac{4}{3} + \frac{2}{9} \cdot \frac{22}{9} \frac{3}{8} - \frac{15}{16} + \frac{54}{81}$

$\rightarrow \frac{486 - 1215 + 864}{1296} = \frac{135}{1296} = \frac{45}{432}$

g) $\frac{5}{36} - \left(\frac{7}{16} + \frac{1}{41} \cdot \frac{3}{5}\right) = \frac{3}{36} - \left(\frac{7}{16} + \frac{5}{12}\right) \Rightarrow \frac{5}{36} - \frac{84 + 80}{190}$

$\Rightarrow \frac{5}{36} - \frac{41}{164} \Rightarrow \frac{5}{36} - \frac{41}{418} = \frac{240 - 1476}{1728}$ $\frac{1236}{1728} = \frac{309}{432}$

h) $\left[\frac{6}{5} \div \frac{9}{10} - \left(2 - \frac{7}{12}\right)\right] + \frac{7}{24} \rightarrow \frac{2}{1} - \frac{7}{12} = \frac{24 - 7}{12}$

$\left[\frac{6}{5} \cdot \frac{9}{10}\left(\frac{2}{1} - \frac{7}{12} = \frac{24 - 7}{12} = \frac{17}{12}\right)\right] + \frac{7}{24}$

$\left[\frac{60}{45} - \frac{17}{12}\right] + \frac{7}{24} = \frac{720 - 765}{540} = \frac{45}{540} = \frac{1}{108}$

$\frac{7}{4} : \frac{9}{108} = \frac{756}{2592} = \frac{540}{2592} = \frac{180}{864} = \frac{5}{24}$

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2.

a. $\frac{7}{5} = 1\frac{2}{5}$

b. $\frac{14}{3} = 4\frac{2}{3}$

c. $\frac{11}{7} = 1\frac{4}{7}$

d. $\frac{351}{32} = 10\frac{31}{32}$

e. $\frac{8571}{317} = 27\frac{12}{317}$

3.

a. $1\frac{7}{8} = \frac{59}{15}$

b. $3\frac{14}{15} = \frac{59}{15}$

c. $2\frac{1}{7} = \frac{15}{7}$

d. $4\frac{5}{32} = \frac{133}{22}$

e $5\frac{2}{9} = \frac{47}{9}$

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4.

a. $6011 \times 1/8 = \frac{5}{32} \cdot \frac{1024}{1} = \frac{5120}{32} = 160$

b. $7018 \times 1/8 = \frac{3}{8} \cdot \frac{1024}{1} = \frac{30072}{8} = 384$

c. $6013 \times 1/8 = \frac{1}{4} \cdot \frac{1024}{1} = \frac{1024}{4} = 256$

D. $3082 \times 1/8 = \frac{896}{4} = 224$

5

$SmAw = \frac{1100}{50}$

$SAw = \frac{1100}{50} \cdot \frac{1}{2} = \frac{1100}{100}$

$GmAw = \frac{1100}{100} \cdot \frac{3}{1} = \frac{3300}{10}$

$GTAw = 100 \cdot \frac{1}{5} = \frac{100}{50}$

6

a. $\frac{7}{5} \cdot \frac{2}{2} = \frac{14}{10}$

b. $\frac{14}{3} \cdot \frac{2}{2} = \frac{28}{6}$

c. $\frac{11}{7} \cdot \frac{2}{2} = \frac{22}{14}$

d. $\frac{5}{32} \cdot \frac{2}{2} = \frac{10}{64}$

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e $\frac{85}{7} \cdot \frac{2}{2} = \frac{170}{14}$

7. a. V b. f c. f

d. F e. V f. f

g. f H. V i f

J. f