MTH1W Quiz (1.4-1.6) $\frac{}{18} + \frac{}{2}$ Name Solutions

1. Determine the measurement of the following lines in feet and inches. [2]

a)

$11\frac{1}{16}$"

b)

$2'8\frac{6}{16}$"

$= 2'8\frac{3}{8}$"

24

12" in a foot → 24" is 2 feet

2. Circle the fraction that represents the **smaller** quantity in each pair. Show work for d) [4]

a) $\frac{2}{5}$ $\frac{2}{9}$

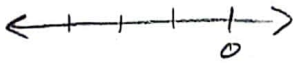
b) $\frac{4}{11}$ $\frac{8}{11}$

c) $\frac{-5}{6}$ $\frac{-5}{8}$

-0.83 -0.625

d) $\frac{4}{5}$ $\frac{5}{8}$

$\frac{32}{40}$ $\frac{25}{40}$



→ Larger

4. Evaluate. [12]

a) $\frac{3}{5} + \left(\frac{-2}{15}\right)$

$= \frac{9}{15} - \frac{2}{15}$ ✓

$= \frac{7}{15}$ ✓

b) $\left(\frac{-5}{9}\right)\left(\frac{-7}{10}\right)_2$ ✓

$= \frac{7}{18}$ ✓

c) $\left(1\frac{2}{3}\right) \div \frac{6}{7}$

$= \frac{5}{3} \times \frac{7}{6}$ ✓

$= \frac{35}{18}$ ✓

(or $1\frac{17}{18}$)

d) $\frac{3}{5} + \frac{3}{4} \div \frac{1}{6}$

$= \frac{3}{5} + \frac{3}{\cancel{4}_2} \times \frac{\cancel{6}^3}{1}$ ✓

$= \frac{3}{5} + \frac{9}{2}$

$= \frac{6}{10} + \frac{45}{10}$ ✓

$= \frac{51}{10}$ ✓

(or $5\frac{1}{10}$)

e) $\left(\frac{1}{4} + \frac{1}{8} - \frac{1}{5}\right) \times \left(\frac{-4}{9}\right)$

$= \left(\frac{10}{40} + \frac{5}{40} - \frac{8}{40}\right) \times \left(\frac{-4}{9}\right)$ ✓

$= \frac{7}{40} \cdot \frac{-4}{9}$ ✓

$= \frac{-7}{90}$ ✓