## Learning Outcomes Covered:

3F: I can use order of operations to evaluate expressions.

## CONTENT Assessment Ouestions:

Evaluate. Show all steps.

a) 
$$\frac{1}{3} \times \left(\frac{1}{2}\right) + \frac{5}{6}$$
  
=  $\frac{1 \times (-1)}{3 \times 1} + \frac{5}{6}$   
=  $\frac{-1}{3} + \frac{5}{6}$   
=  $\frac{-2}{6} + \frac{5}{6}$   
=  $\frac{3}{6} = \frac{1}{2}$ 

b) 
$$\frac{3}{8} - \frac{9}{4} = \left[ \left( -\frac{5}{4} \right) + \left( -\frac{1}{10} \right) \right]$$

$$= \frac{3}{8} - \frac{9}{4} = \left[ \left( -\frac{5}{4} \right) + \left( -\frac{1}{10} \right) \right]$$

$$= \frac{3}{8} - \frac{9}{4} = \left[ \left( -\frac{25}{20} \right) - \frac{2}{20} \right]$$

$$= \frac{3}{8} - \frac{9}{4} = \left[ -\frac{27}{20} \right]$$

$$= \frac{3}{8} - \left( \frac{9}{4} \times \frac{26}{24} \right)$$

$$= \frac{3}{8} - \left( \frac{9}{4} \times \frac{26}{24} \right)$$

$$= \frac{3}{24} + \frac{40}{24}$$

$$= \frac{3}{24} - \left( \frac{1 \times 5}{1 \times (-3)} \right)$$

$$= \frac{49}{24} = 2 \frac{1}{24}$$

e) 
$$1\frac{5}{9} - \left(-2\frac{1}{6}\right) + \left[4\frac{1}{4} + \left(-3\frac{1}{2}\right)\right]^{2} + \frac{2}{5}$$
 d)  $\frac{9.6 \times 12.6 - 5.3 + (-1.7) - 0.36}{(-2.9) + 1.45 - 1.2}$ 

$$= \left|\frac{10}{18} + 2\frac{3}{18} + \left[3\frac{5}{4} - 3\frac{2}{4}\right]^{2} + \frac{2}{5}\right| = \frac{120.96 + 3}{-2 - 1.2}$$

$$= 3\frac{13}{18} + \frac{9}{16} + \frac{2}{5} = 3\frac{613}{288} = \frac{123.96 - 3}{-3.6}$$

$$= 3\frac{13}{18} + \frac{9}{16} \times \frac{5}{5} = 5\frac{31}{288} = \frac{123.96 - 3}{-3.2}$$

$$= 3\frac{13}{18} + \frac{45}{16} \times \frac{5}{32} = -38.62$$

$$= 3\frac{209}{288} + \frac{90.5}{288} = -38.62$$

$$= \frac{120.96 + 3 - 0.36}{-2 - 1.27}$$

$$= \frac{123.96 - 0.36}{-3.2}$$

$$= \frac{123.6}{-3.2}$$

$$= -38.625$$

(RA)

## CURRICULAR COMPETENCIES Questions:

- Warren's father mowed  $\frac{1}{8}$  of the lawn. Warren mowed  $\frac{2}{3}$  of the lawn that was left by his father. 1. Warren's two younger brothers finished mowing the rest of the lawn.
  - a) What is the fraction of the entire lawn that Warren mowed?

b) What fraction of the entire lawn did each of Warren's brothers mow?

$$1 - \frac{1}{8} - \frac{7}{12} = \frac{24}{24} - \frac{3}{24} - \frac{14}{24}$$

$$= \frac{7}{24} - \frac{7}{24} - \frac{14}{24}$$

Find the errors in this solution. Write a correct solution.

$$\begin{array}{r}
1.7 \times (4.6 - 2.1) + 3.5 \times 1.3 \\
= 1.7 \times 2.5 + 3.5 \times 1.3 \\
= 1.7 \times 6) 1.3
\\
= 13.26$$

## ONGOING LEARNING ACTIVITIES:

CORE: Page 140: Curricular Competencies: 8, 10, 14, 17

Content: 4, 7ac, 9, 12, 13, 14, 16

ADVANCED: Page 142: 19, 20, 21