

Use the order of the operations to evaluate each expression.

$$1. \quad 5 - 3 \frac{1}{2} \div 2 \frac{3}{5}$$

$$\downarrow$$

$$\frac{7}{2} \div \frac{13}{5}$$

$$\frac{7}{2} \cdot \frac{5}{13}$$

$$\frac{5}{1} - \frac{35}{26}$$

$$\frac{130}{26} - \frac{35}{26}$$

$$\frac{95}{26}$$

$$\boxed{3 \frac{17}{26}}$$

$$2. \quad 2 \frac{1}{3} \times \left(-4 \frac{5}{7}\right) - \left(-\frac{3}{5}\right)$$

$$\frac{7}{3} \cdot \frac{-35}{7} - \frac{-11}{1}$$

$$-\frac{11}{1} - \left(-\frac{3}{5}\right)$$

$$-\frac{11}{1} + \frac{3}{5}$$

$$\frac{-55}{5} + \frac{3}{5}$$

$$\frac{-52}{5} = \boxed{-10 \frac{2}{5}}$$

$$3. \quad (-0.2)^2 - 4.14(-0.06)$$

$$0.04 - 4.14(-0.06)$$

$$\downarrow \quad \swarrow \quad \searrow$$

$$0.04 - (-0.2484)$$

$$0.04 + 0.2484$$

$$\frac{0.2484}{+0.0400}$$

$$\frac{0.2884}{0.2884}$$

$$\boxed{0.2884}$$

Evaluate each algebraic expression where  $a = -\frac{5}{9}$ ,  $b = \frac{5}{3}$ ,  $c = 0.5$ ,  $d = 11.5$ ,  $e = -2$ 

4.  $\frac{a}{b} + e$

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

$$-\frac{5}{9} \div \frac{5}{3}$$

$$-\frac{5}{9} \cdot \frac{3}{5}$$

$$-\frac{1}{3}$$

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

$$-\frac{1}{3} + \frac{-6}{3}$$

$$-\frac{7}{3}$$

$$\boxed{-2 \frac{1}{3}}$$

5.  $|abc|$

$$\left| \left(-\frac{5}{9}\right) \left(\frac{5}{3}\right) (0.5) \right|$$

$$\left| \left(-\frac{5}{9}\right) \left(\frac{5}{3}\right) \left(\frac{1}{2}\right) \right|$$

$$\left| \frac{-25}{54} \right|$$

$$\boxed{\frac{25}{54}}$$