

## More Decimal Calculations

1. Find the decimal value of each expression.  
Round each answer to the nearest one thousandth.

a)  $-3.852 - 3.01 + 5$       b)  $\left(\frac{2}{3}\right)^2 - \left(\frac{5}{3}\right)^3$

c)  $\left(\frac{1}{3} + \frac{7}{5}\right)^2 \div 0.3 - \frac{7}{9}$       d)  $\frac{5}{13} - \frac{7}{8} + \frac{3}{4}$

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$$-3.852 - 3.01 + 5$$

$$\boxed{-1.862}$$

$$\frac{4}{9} - \frac{125}{27}$$

$$\frac{4}{9}\left(\frac{3}{3}\right) - \frac{125}{27}$$

$$\frac{12}{27} - \frac{125}{27}$$

$$-\frac{113}{27}$$

$$\boxed{-4.185}$$

c)  $\left(\frac{1}{3} + \frac{7}{5}\right)^2 \div 0.3 - \frac{7}{9}$

LCD = 15

$$\left[\frac{1}{3}\left(\frac{5}{5}\right) + \frac{7}{5}\left(\frac{3}{3}\right)\right]^2 \div \frac{3}{10} - \frac{7}{9}$$

$$\left[\frac{5}{15} + \frac{21}{15}\right]^2 \div \frac{3}{10} - \frac{7}{9}$$

$$\left[\frac{26}{15}\right]^2 \div \frac{3}{10} - \frac{7}{9}$$

$$\frac{676}{225} \cdot \frac{10}{3} - \frac{7}{9}$$

$$\frac{6760}{675} - \frac{7}{9}$$

$$\boxed{9.237}$$

d)  $\frac{5}{13} - \frac{7}{8} + \frac{3}{4}$

$$\frac{5}{13}\left(\frac{8}{8}\right) - \frac{7}{8}\left(\frac{13}{13}\right) + \frac{3}{4}\left(\frac{26}{26}\right)$$

$$\frac{40}{104} - \frac{91}{104} + \frac{78}{104}$$

$$\frac{40 - 91 + 78}{104}$$

$$\frac{27}{104}$$

$$\boxed{0.260}$$