Prealgebra Skill

Performing Combined Operations on Fractions

Evaluate each expression.

1) $\left(4 - \frac{1}{3}\right) \div \frac{4}{5}$

2) $\frac{2}{5} - \left(\frac{-5}{4}\right) \div 1$

3) $(-1) \div \left((-1) - \left(\frac{-11}{6}\right)\right)$

4) $\frac{1}{3} - \left(\frac{1}{4} - \left(\frac{-5}{6}\right)\right)$

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

6) $\dfrac{\left|-\frac{1}{3}\right|}{\frac{11}{6}} + \frac{1}{2}$

7) $\dfrac{\frac{2}{3} \cdot \left(-\frac{2}{3}\right)}{\left(-\frac{1}{3}\right) - 3 + 2}$

8) $\left(\frac{3}{5} + \frac{1}{3}\right)\left(\frac{4}{3} \cdot \frac{3}{5} - \left(-\frac{1}{2}\right)\right)$

9) $\dfrac{\left|-\frac{5}{6}\right|^3}{\left(-\frac{5}{6}\right)} - \left(\frac{1}{2} - \frac{3}{5}\right)$

10) $\frac{1}{2} \cdot (-2) + \dfrac{\left(-\frac{1}{2}\right) \cdot \left(-\frac{4}{3}\right) - \frac{3}{2}}{\frac{2}{3}}$

Answers to Performing Combined Operations on Fractions

1) $\frac{55}{12}$

2) $\frac{33}{20}$

3) $-\frac{6}{5}$

4) $-\frac{3}{4}$

5) $-\frac{1}{2}$

6) $\frac{15}{22}$

7) $\frac{1}{3}$

8) $\frac{91}{75}$

9) $-\frac{107}{180}$

10) $-\frac{9}{4}$