

Simplifying Complex Fractions Involving Signed Fractions

Evaluate each expression.

1)
$$\frac{1\frac{1}{2}}{3\frac{4}{5} \cdot 2}$$

2)
$$\frac{3\frac{1}{3}}{(-2) - 3\frac{2}{3}}$$

3)
$$\frac{1}{-5\frac{1}{2}} - \left(-1\frac{1}{6}\right)$$

4)
$$\frac{\frac{4}{5} + \frac{1}{2}}{-3\frac{2}{3}}$$

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

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

7)
$$-\frac{\frac{2}{5} \cdot \left(-2\frac{1}{3}\right)}{2\frac{1}{2}}$$

8)
$$\left(-\frac{1}{3}\right) + \frac{1\frac{1}{6}}{2\frac{2}{3}}$$

9)
$$\left(-3\frac{1}{2}\right) + \frac{2\frac{1}{2}}{-1\frac{1}{6}}$$

10)
$$\frac{\frac{3}{4}}{4\frac{1}{2}} - 1\frac{3}{5}$$

Answers to Simplifying Complex Fractions Involving Signed Fractions

1) $\frac{15}{76}$

2) $-\frac{10}{17}$

3) $\frac{65}{66}$

4) $-\frac{39}{110}$

5) $\frac{4}{9}$

6) -8

7) $\frac{28}{75}$

8) $\frac{17}{12}$

9) $-\frac{79}{14}$

10) $-\frac{43}{30}$