Mr. Richardson's Fractions Practice #2

Mixed Operations:

Perform all the calculations below and show all answers in their simplified form.

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

2) $\frac{6}{7}\div\frac{2}{3}+\frac{2}{3}=?$

3) $\frac{3}{4}-\left(\frac{1}{2}\right)^{3}=?$

4) $\frac{2}{3}\left(\frac{4}{3}-\frac{1}{5}\right)=?$

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

6) $\frac{3}{4}\div 4\frac{1}{8}=?$

Complex Fractions and Exponents:

7) $\frac{\frac{3}{5}}{\frac{5}{8}}=?$

8) $\frac{\frac{4}{5}}{\frac{8}{7}}=?$

9) $\left(\frac{2}{3}\right)^{4}-\frac{1}{2}=?$

10) $\left(\frac{1}{3}\right)^{3}-\left(\frac{2}{3}\right)^{2}-\left(\frac{3}{4}\right)^{0}=?$

11) $\frac{\left(\frac{4}{5}\right)^{2}}{\frac{2}{5}}=?$

12) $\frac{\frac{5}{6}}{3}+\frac{2}{\frac{3}{4}}=?$

Answers:

1) $-\frac{1}{35}$

2) $\frac{41}{21}$

3) $\frac{5}{8}$

4) $\frac{34}{45}$

5) $\frac{42}{5}$

6) $\frac{2}{11}$

7) $\frac{24}{25}$

8) $\frac{7}{10}$

9) $-\frac{49}{162}$

10) $\frac{25}{27}$

11) $\frac{8}{5}$

12) $\frac{53}{18}$