Math 021 Review of Fractions

Simplify completely. Reduce all results to lowest terms and rewrite improper fractions as mixed numbers.

1. $\frac{7}{36} + \frac{7}{90} =$

2. $7\frac{1}{10} - 3\frac{1}{5} =$

3. $7 \div 5\frac{1}{5} =$

4. $2\frac{1}{3} + \frac{5}{6} \div 1\frac{3}{4}$

5. $2\frac{2}{3} \bullet 2\frac{1}{4} \bullet 12 =$

6. $\frac{6}{\frac{3}{5}} =$

7. $8 \bullet 5 + 6 \div 12 =$

8. $(1\frac{3}{8} - \frac{1}{2}) \div 1\frac{5}{16}$

9. $9\frac{1}{6} - 1\frac{1}{4} \bullet 4$

10. $\frac{8}{35} \div \frac{2}{7} \bullet \frac{4}{5}$

11. $\frac{1}{2} \div \left(\frac{1}{2} - \frac{1}{3}\right)^2 \bullet \frac{7}{12} + 6\frac{3}{4}$

12. $\left(9 - 7\frac{1}{4}\right)^2 \div \frac{3}{20} - 19\frac{3}{4}$

ANSWERS: 1. $\frac{49}{180}$ 2. $3\frac{9}{10}$ 3. $1\frac{9}{26}$ 4. $2\frac{17}{21}$ 5. 72 6. 10 7. $40\frac{1}{2}$
8. $\frac{2}{3}$ 9. $4\frac{1}{6}$ 10. $\frac{16}{25}$ 11. $17\frac{1}{4}$ 12. $\frac{2}{3}$