ASSIGNMENT #9: FRACTION MULTIPLICATION AND DIVISION

Solve the following and leave answers as simplified improper fractions.
Remember dividing is the same as multiplying by the reciprocal!

1: $\frac{1}{3} \times \frac{3}{4}$

2: $\frac{2}{5} \times \frac{10}{5}$

3: $\frac{6}{11} \times 9$

4: $8\frac{1}{3} \times \frac{8}{9}$

5: $\frac{7}{2} \times \frac{11}{19}$

6: $\frac{18}{6} \times \frac{900}{5}$

7: $10\frac{1}{4} \times 4\frac{3}{5}$

8: $\frac{9}{12} \div \frac{1}{8}$

9: $\frac{12}{13} \div \frac{3}{4}$

10: $\frac{18}{9} \div \frac{15}{5}$

11: $3\frac{1}{2} \div 8$

12: $2 \div \frac{17}{4}$

13: $7\frac{5}{10} \div 6\frac{3}{4}$

14: $\frac{90}{10} \div 2$

15: $\frac{124}{12} \div \frac{6}{7}$

CHALLENGE PROBLEMS:

$$\frac{\left(\frac{4}{8} + \frac{15}{5}\right)}{\left(\frac{12}{5} \div \frac{2}{10}\right)}$$

ANSWER KEY

1. $\frac{1}{4}$
2. $\frac{4}{5}$
3. $\frac{54}{11}$
4. $\frac{200}{27}$
5. $\frac{77}{38}$
6. 540
7. $\frac{943}{20}$
8. 6
9. $\frac{16}{13}$
10. $\frac{2}{3}$
11. $\frac{7}{16}$
12. $\frac{8}{17}$
13. $\frac{10}{9}$
14. $\frac{9}{2}$
15. $\frac{217}{18}$

CHALLENGE

$\frac{7}{24}$