Dividing Fractions

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

$\frac{21}{5} \div \frac{7}{2}$

$\frac{21}{5} \times \frac{2}{7}$

$\frac{\cancel{21}^{(3)}}{5} \times \frac{2}{\cancel{7}_{(1)}} = \boxed{\frac{6}{5}}$

2) $4\frac{1}{5} \div 3\frac{7}{10}$

$\frac{21}{5} \div \frac{37}{10}$

$\frac{21}{\cancel{5}_{(1)}} \cdot \frac{\cancel{10}^{(2)}}{37} = \boxed{\frac{42}{37}}$

3) $2\frac{2}{3} \div 3\frac{2}{5}$

$\frac{8}{3} \div \frac{17}{5}$

$\frac{8}{3} \cdot \frac{5}{17} = \boxed{\frac{40}{51}}$

4) $3\frac{7}{10} \div 4\frac{1}{3}$

$\frac{37}{10} \div \frac{13}{3}$

$\frac{37}{10} \cdot \frac{3}{13} = \boxed{\frac{111}{130}}$

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

$\frac{7}{3} \div \frac{17}{4}$

$\frac{7}{3} \cdot \frac{4}{17} = \boxed{\frac{28}{51}}$

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

$\frac{19}{5} \div \frac{7}{3}$

$\frac{19}{5} \cdot \frac{3}{7} = \boxed{\frac{57}{35}}$

7) $4\frac{1}{10} \div 4\frac{4}{5}$

$\frac{41}{10} \div \frac{24}{5}$

$\frac{41}{\cancel{10}_{(2)}} \cdot \frac{\cancel{5}^{(1)}}{24} = \boxed{\frac{41}{48}}$

8) $3\frac{3}{5} \div 3\frac{1}{2}$

$\frac{18}{5} \div \frac{7}{2}$

$\frac{18}{5} \cdot \frac{2}{7} = \boxed{\frac{36}{35}}$

9) $4\frac{1}{3} \div 3\frac{1}{2}$

$\frac{13}{3} \div \frac{7}{2}$

$\frac{13}{3} \cdot \frac{2}{7} = \boxed{\frac{26}{21}}$

10) $2\frac{1}{2} \div 2\frac{3}{5}$

$\frac{5}{2} \div \frac{13}{5}$

$\frac{5}{2} \cdot \frac{5}{13} = \boxed{\frac{25}{26}}$

Word Problems (1-6)

1) $2\frac{1}{2} \div 2$

$\frac{5}{2} \div \frac{2}{1}$

$\frac{5}{2} \cdot \frac{1}{2} = \boxed{\frac{5}{4} \text{ chocolate bars}}$

2) $30\frac{1}{2} \div 4$

$\frac{61}{2} \div \frac{4}{1}$

$\frac{61}{2} \cdot \frac{1}{4} = \boxed{\frac{61}{8} \text{ acres}}$

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

$\frac{10}{3} \div \frac{3}{1}$

$\frac{10}{3} \cdot \frac{1}{3} = \boxed{\frac{10}{9} \text{ inches}}$

4) $\frac{3}{4} \div 2$

$\frac{3}{4} \div \frac{2}{1}$

$\frac{3}{4} \cdot \frac{1}{2} = \boxed{\frac{3}{8} \text{ in.}}$

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

$\frac{7}{3} \div \frac{4}{1}$

$\frac{7}{3} \cdot \frac{1}{4} = \boxed{\frac{7}{12} \text{ mile}}$

6) $625\frac{1}{2} \div 3$

$\frac{1251}{2} \div \frac{3}{1}$

$\frac{\cancel{3}(417)1251}{2} \cdot \frac{1}{\cancel{3}_{(1)}} = \boxed{\frac{417}{2} \text{ miles}}$