Dividing Fractions #2 Homework Name _____

Find the Reciprocal of the following fractions.

1. $\frac{3}{8}$

2. 5

3. $2\frac{1}{3}$

4. $\frac{1}{7}$

5. $5\frac{4}{5}$

6. 13

Divide. Convert to a Mixed Number if Necessary. (Remember to Simplify on the Diagonal)

1. $3\frac{1}{9} \div \frac{7}{10}$

2. $6\frac{2}{3} \div 8$

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

4. $18\frac{1}{3} \div 3\frac{1}{7}$

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

6. $500 \div 3\frac{4}{7}$

Dividing Fractions #2 Homework Name Key

Find the Reciprocal of the following fractions.

1. $\frac{3}{8}$ $\frac{8}{3}$ or $2\frac{2}{3}$

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

3. $2\frac{1}{3}$ $\frac{3}{7}$

$\frac{7}{3}$

4. $\frac{1}{7}$ 7

5. $5\frac{4}{5}$ $\frac{5}{29}$

$\frac{29}{5}$

6. 13 $\frac{1}{13}$

Divide. Convert to a Mixed Number if Necessary. (Remember to Simplify on the Diagonal)

1. $3\frac{1}{9} \div \frac{7}{10}$

$\frac{28}{9} \div \frac{7}{10}$

$\frac{28}{9} \cdot \frac{10}{7_1} = \frac{40}{9} = 4\frac{4}{9}$

2. $6\frac{2}{3} \div 8$

$\frac{20}{3} \div \frac{8}{1}$

$\frac{20}{3} \cdot \frac{1}{8_2} = \frac{5}{6}$

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

$\frac{3}{5} \div \frac{9}{4}$

$\frac{{}^{1}\cancel{3}}{5} \cdot \frac{4}{\cancel{9}_{3}} = \frac{4}{15}$

4. $\frac{+}{18}\frac{1}{\times 3} \div 3\frac{+1}{\times 7}$

$\frac{55}{3} \div \frac{22}{7}$

$\frac{{}^{5}\cancel{55}}{3} \cdot \frac{7}{\cancel{22}_{2}} = \frac{35}{6} = 5\frac{5}{6}$

5. $3\frac{+3}{\times 5} \div 2\frac{+1}{\times 10}$

$\frac{18}{5} \div \frac{21}{10}$

$\frac{{}^{6}\cancel{18}}{{}_{1}\cancel{5}} \cdot \frac{\cancel{10}^{2}}{\cancel{21}_{7}} = \frac{12}{7} = 1\frac{5}{7}$

6. $500 \div 3\frac{+4}{\times 7}$

$\frac{500}{1} \div \frac{25}{7}$

$\frac{{}^{20}\cancel{500}}{1} \cdot \frac{7}{\cancel{25}_{1}} = \frac{140}{1} = 140$