Lesson 2.4 Dividing Fractions and Mixed Numbers

To divide by a fraction, multiply by its reciprocal.

$$\frac{2}{3} \div \frac{5}{8} = \frac{2}{3} \times \frac{8}{5} = \frac{16}{15} = 1\frac{1}{15}$$

$$1\frac{2}{3} \div 2\frac{5}{9} = \frac{5}{\cancel{3}} \times \frac{\cancel{9}^{3}}{23} = \frac{15}{23}$$

Divide. Write each answer in simplest form.

	a	**b**	**c**	**d**
1.	$3\frac{1}{2} \div \frac{2}{3} =$ _____	$4\frac{3}{4} \div 1\frac{7}{8} =$ _____	$\frac{3}{4} \div \frac{1}{2} =$ _____	$2\frac{2}{3} \div \frac{1}{8} =$ _____
2.	$7 \div \frac{3}{5} =$ _____	$2\frac{1}{12} \div 1\frac{1}{3} =$ _____	$2\frac{1}{7} \div \frac{3}{4} =$ _____	$3 \div 5 =$ _____
3.	$1\frac{1}{8} \div \frac{1}{10} =$ _____	$1\frac{2}{5} \div 2\frac{1}{3} =$ _____	$5 \div 1\frac{1}{2} =$ _____	$3\frac{1}{4} \div 1\frac{1}{2} =$ _____
4.	$6\frac{2}{3} \div \frac{2}{3} =$ _____	$3\frac{1}{8} \div \frac{2}{7} =$ _____	$4\frac{1}{4} \div \frac{1}{12} =$ _____	$14 \div \frac{1}{7} =$ _____
5.	$2\frac{3}{5} \div 1\frac{2}{7} =$ _____	$1\frac{1}{9} \div \frac{7}{11} =$ _____	$12 \div 15 =$ _____	$2\frac{4}{5} \div 3 =$ _____