



DIVIDING MIXED NUMBERS SHEET 1

To divide mixed numbers, follow these three simple steps:

- 1) Convert the mixed numbers into improper fractions
- 2) Invert the divisor fraction (swap the numerator and denominator of the second fraction) and change the division operator to a multiplication operator.

Note – if the divisor is an integer (Example 2), re-write it as a fraction with a denominator of 1, then invert it.

- 3) Multiply the two fractions together.

Example 1 $2 \frac{3}{4} \div 1 \frac{2}{5} = \frac{11}{4} \div \frac{7}{5} = \frac{11}{4} \times \frac{5}{7} = \frac{55}{28}$

Example 2 $1 \frac{2}{5} \div 4 = \frac{7}{5} \div \frac{4}{1} = \frac{7}{5} \times \frac{1}{4} = \frac{7}{20}$

Work out these fraction divisions. Your answer can be left as an improper fraction and does not need to be in simplest form.

1) $1 \frac{1}{3} \div \frac{1}{2} = \frac{\quad}{3} \times \frac{2}{1} = \frac{\quad}{3}$ 2) $1 \frac{1}{4} \div \frac{3}{4} = \frac{\quad}{4} \times \frac{4}{3} = \frac{\quad}{12}$

3) $2 \frac{2}{5} \div 3 = \frac{\quad}{5} \times \frac{1}{3} = \frac{\quad}{15}$ 4) $3 \frac{1}{3} \div \frac{3}{5} = \frac{\quad}{3} \times \frac{\quad}{3} = \frac{\quad}{9}$

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

7) $2 \frac{4}{5} \div 1 \frac{1}{3} = \frac{\quad}{5} \times \frac{\quad}{3} = \frac{\quad}{\quad}$ 8) $3 \frac{4}{5} \div 2 = \frac{\quad}{5} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$

Name

Date



DIVIDING MIXED NUMBERS SHEET 1 ANSWERS

$$1) \quad 1\frac{1}{3} \div \frac{1}{2} = \frac{4}{3} \times \frac{2}{1} = \frac{8}{3} \quad 2) \quad 1\frac{1}{4} \div \frac{3}{4} = \frac{5}{4} \times \frac{4}{3} = \frac{20}{12}$$

$$3) \quad 2\frac{2}{5} \div 3 = \frac{12}{5} \times \frac{1}{3} = \frac{12}{15} \quad 4) \quad 3\frac{1}{3} \div \frac{3}{5} = \frac{10}{3} \times \frac{5}{3} = \frac{50}{9}$$

$$5) \quad 4\frac{1}{2} \div \frac{2}{5} = \frac{9}{2} \times \frac{5}{2} = \frac{45}{4} \quad 6) \quad 2\frac{3}{5} \div 4 = \frac{13}{5} \times \frac{1}{4} = \frac{13}{20}$$

$$7) \quad 2\frac{4}{5} \div 1\frac{1}{3} = \frac{14}{5} \times \frac{3}{4} = \frac{42}{20} \quad 8) \quad 3\frac{4}{5} \div 2 = \frac{19}{5} \times \frac{1}{2} = \frac{19}{10}$$