Using a Common Denominator

Home Link 5-2

NAME DATE TIME

SRB 177, 190

① For each pair of fractions in the table, find a common denominator. Then rewrite the two fractions as equivalent fractions with a common denominator. Write > or < in the space provided to create a true number sentence. Common denominators and equivalent fractions are sample answers.

Remember the three strategies you have learned:

- List equivalent fractions.
- Check to see if one denominator is a multiple of the other denominator.
- Multiply denominators to get a quick common denominator.

	Original Fractions	Common Denominator	Equivalent Fractions		> or <
a.	$\frac{4}{7}$ $\frac{3}{5}$	35	$\frac{20}{35}$	$\frac{21}{35}$	$\frac{4}{7} < \frac{3}{5}$
b.	$\frac{5}{9}$ $\frac{2}{3}$	9	$\frac{5}{9}$	$\frac{6}{9}$	$\frac{5}{9} < \frac{2}{3}$
c.	$\frac{1}{4}$ $\frac{2}{10}$	20	$\frac{5}{20}$	$\frac{4}{20}$	$\frac{1}{4} > \frac{2}{10}$
d.	$\frac{7}{9}$ $\frac{5}{6}$	18	$\frac{14}{18}$	$\frac{15}{18}$	$\frac{7}{9} < \frac{5}{6}$
e.	$\frac{5}{12}$ $\frac{3}{8}$	24	$\frac{10}{24}$	$\frac{9}{24}$	$\frac{5}{12} > \frac{3}{8}$

Use the table to help you rewrite the problems with common denominators. Then solve.

② $\frac{3}{5} - \frac{4}{7} = \frac{21}{35} - \frac{20}{35} = \frac{1}{35}$

③ $\frac{1}{4} + \frac{2}{10} = \frac{5}{20} + \frac{4}{20} = \frac{9}{20}$

④ $\frac{5}{9} + \frac{2}{3} = \frac{5}{9} + \frac{6}{9} = \frac{11}{9}$ or $1\frac{2}{9}$

Practice

Solve. Show your work on the back of the page.

⑤ 8,170 ÷ 75 → 108 R70

⑥ 298 ÷ 17 → 17 R9

 5.NF.1, 5.NBT.6, SMP7