

# 3.20

## Ordering Three Fractions Having a Common Numerator

### • Example 1

Order the fractions  $\frac{5}{7}$ ,  $\frac{5}{9}$ ,  $\frac{5}{8}$  from least to greatest.

Since these fractions have a common numerator, we need only to consider the denominators. The greater the number in the denominator, the smaller the fraction. That is, since

$$7 < 8 < 9$$

$$\text{we have } \frac{5}{9} < \frac{5}{8} < \frac{5}{7}.$$

### ● ● ● CHECK YOURSELF 1

Order the fractions  $\frac{3}{4}$ ,  $\frac{3}{8}$ ,  $\frac{3}{5}$  from least to greatest.

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### ● ● ● CHECK YOURSELF ANSWER

1.  $\frac{3}{8} < \frac{3}{5} < \frac{3}{4}.$

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# 3.20 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_

Date \_\_\_\_\_

## A N S W E R S

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

Order the following from least to greatest.

1.  $\frac{6}{7}, \frac{6}{11}, \frac{6}{9}$

2.  $\frac{4}{5}, \frac{4}{9}, \frac{4}{7}$

3.  $\frac{11}{15}, \frac{11}{21}, \frac{11}{13}$

4.  $\frac{8}{9}, \frac{8}{13}, \frac{8}{15}$

5.  $\frac{17}{33}, \frac{17}{43}, \frac{17}{53}$

6.  $\frac{2}{9}, \frac{2}{7}, \frac{2}{13}$

7.  $\frac{7}{9}, \frac{7}{16}, \frac{7}{25}$

8.  $\frac{9}{59}, \frac{9}{11}, \frac{9}{32}$

9.  $\frac{10}{13}, \frac{10}{17}, \frac{10}{23}$

10.  $\frac{1}{4}, \frac{1}{12}, \frac{1}{7}$

11.  $\frac{4}{9}, \frac{4}{13}, \frac{4}{81}$

12.  $\frac{6}{13}, \frac{6}{17}, \frac{6}{29}$