

Comparing and Ordering Fractions 2.5 MATHPOWERTM Seven, pp. 50-51

To compare fractions with a common denominator, compare the numerators. To compare fractions with different denominators, write the equivalent fractions with a common denominator, then compare numerators.

$$\frac{1}{7}$$
 < $\frac{6}{7}$ because 4 < 6

$$2\frac{3}{4} > 2\frac{3}{5}$$
 because $2\frac{15}{20} > 2\frac{12}{20}$

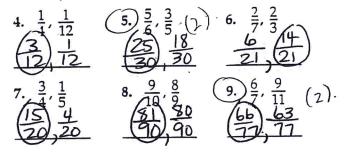
Which fraction is larger?



2.
$$\frac{4}{9}$$
 $\frac{8}{9}$

3.
$$\frac{3}{8}, \frac{5}{8}$$

Write each pair of fractions with their lowest common denominator. Circle the larger fraction in each pair.



Insert > or < between each pair of fractions.

10.
$$\frac{3}{4} \sum \frac{2}{3}$$

11.
$$\frac{5}{9} \boxtimes \frac{5}{6}$$

10.
$$\frac{3}{4} \bigcirc \frac{2}{3}$$
 11. $\frac{5}{9} \bigcirc \frac{5}{6}$ 12. $\frac{5}{12} \bigcirc \frac{3}{5}$

$$(13) \ 2\frac{1}{2} \triangleright \frac{5}{4} \qquad 14. \ \frac{11}{3} \triangleright 3\frac{3}{4} \qquad 15. \ \frac{31}{8} \triangleright 3\frac{5}{6}$$

14.
$$\frac{11}{3}$$
 \angle $3\frac{3}{4}$

15.
$$\frac{31}{8} \ge 3\frac{5}{6}$$

Rewrite each set of fractions in order from smallest to largest.

16.
$$\frac{2}{3}$$
, $\frac{1}{4}$, $\frac{5}{6}$, $\frac{7}{12}$ $\frac{4}{5}$, $\frac{7}{12}$, $\frac{2}{3}$, $\frac{5}{6}$

$$(17.)\frac{9}{4}$$
, $1\frac{5}{8}$, $1\frac{1}{6}$, $\frac{17}{12}$

$$17.\frac{9}{4}$$
, $1\frac{5}{8}$, $1\frac{1}{6}$, $\frac{17}{12}$ $1\frac{1}{6}$, $\frac{17}{12}$, $1\frac{5}{8}$, $\frac{9}{4}$

Rewrite each set of fractions from largest to smallest.

18.
$$1\frac{3}{10}$$
, $\frac{11}{20}$, $\frac{1}{4}$, $\frac{7}{5}$, $1\frac{3}{4}$

13. $\frac{7}{4}$, $\frac{3}{5}$, $\frac{13}{10}$, $\frac{3}{4}$

13. $\frac{7}{4}$, $\frac{3}{5}$, $\frac{13}{10}$, $\frac{13}{20}$, $\frac{3}{4}$

19. $2\frac{1}{5}$, $\frac{9}{10}$, $3\frac{1}{3}$, $\frac{9}{5}$, $\frac{2}{15}$

3 $\frac{1}{3}$, $\frac{1}{25}$, $\frac{9}{5}$, $\frac{9}{10}$, $\frac{2}{15}$

Use the numerators and denominators listed in the boxes to complete questions 20-22.

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2	S	11	
1	5	4	1

20. Write 5 fractions, each with a value less than 1.

21. Rewrite the tractions from question 20 in order from smallest to largest.

22. Write 5 fractions, each with a value between 1 and 3.

23. Rewrite the fractions from question 22 in order from smallest to largest.