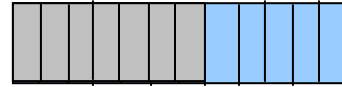
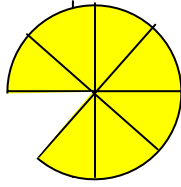
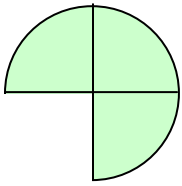


### Homework: Rational Numbers/ Compare

Shade in the given fraction. Judging by sight, place the sign  $>$ ,  $<$ , or  $=$  between the fractions.



1. a.  $\frac{3}{4}$  \_\_\_\_\_  $\frac{7}{8}$   
 $<$

b.  $\frac{5}{6}$  \_\_\_\_\_  $\frac{7}{12}$   
 $>$

Place  $>$ ,  $<$ , or  $=$  between the fractions to make a true statement. Use cross-products to compare. Remember to multiply from the bottom up and compare the upper products. See example #1.

2.  $\frac{3}{4}$   $>$   $\frac{5}{7}$

3.  $\frac{2}{3}$  \_\_\_\_\_  $\frac{5}{7}$

4.  $\frac{5}{8}$  \_\_\_\_\_  $\frac{4}{7}$

5.  $\frac{4}{9}$  \_\_\_\_\_  $\frac{1}{3}$

6.  $\frac{2}{3}$  \_\_\_\_\_  $\frac{4}{9}$

7.  $\frac{1}{4}$  \_\_\_\_\_  $\frac{5}{16}$

8.  $\frac{2}{7}$  \_\_\_\_\_  $\frac{5}{12}$

9.  $\frac{8}{3}$  \_\_\_\_\_  $\frac{11}{4}$

10.  $\frac{7}{9}$  \_\_\_\_\_  $\frac{5}{7}$

11.  $\frac{1}{3}$  \_\_\_\_\_  $\frac{3}{8}$

12.  $\frac{5}{9}$  \_\_\_\_\_  $\frac{2}{3}$

13.  $\frac{4}{5}$  \_\_\_\_\_  $\frac{7}{9}$

Change each fraction to a decimal, compare, and write  $>$ ,  $<$ , or  $=$  between each pair.

14.  $\frac{5}{8}$  \_\_\_\_\_  $\frac{7}{9}$   
 $.625 < .778$

15.  $\frac{3}{5}$  \_\_\_\_\_  $\frac{4}{7}$   
 $.600 > .571$

16.  $\frac{5}{9}$  \_\_\_\_\_  $\frac{1}{2}$   
 $.556 > .500$

17.  $\frac{5}{7}$  \_\_\_\_\_  $\frac{3}{4}$   
 $.714 < .750$

18.  $\frac{7}{8}$  \_\_\_\_\_  $\frac{6}{7}$   
 $.875 < .857$

19.  $\frac{2}{5}$  \_\_\_\_\_  $\frac{4}{9}$   
 $.400 < .444$

20.  $\frac{4}{7}$  \_\_\_\_\_  $\frac{5}{12}$   
 $.571 > .417$

21.  $\frac{5}{8}$  \_\_\_\_\_  $\frac{2}{3}$   
 $.625 < .667$

Arrange the numbers in order from smallest to greatest.

22.  $\frac{2}{3}, \frac{5}{8}, \frac{3}{5}$

23.  $\frac{5}{7}, \frac{3}{4}, \frac{7}{9}$

24.  $\frac{1}{4}, \frac{2}{9}, \frac{3}{11}$

25.  $\frac{4}{5}, \frac{8}{11}, \frac{7}{8}$