

Name: _____

Test Date: _____

Fractions Study Guide

Vocabulary

denominator - the bottom number in a fraction, the number of equal parts that make a whole

numerator - the top number in a fraction, a counting number that tells how many equal size parts are being considered

four fifths

numerator ← $4/5$ → **denominator**

proper fraction - a fraction whose numerator is smaller than its denominator, value is less than one whole

improper fraction - a fraction whose numerator is the same as or bigger than its denominator, value is greater than or equal to one whole

mixed number - value is greater than one, written as a whole number with a fraction such as:

$3 \frac{1}{2}$ (3 and a half
or 3 wholes and one half)

Naming and Modeling Fractions and Mixed Numbers

Halves = 2 equal parts

Thirds = 3 equal parts

Fourths = 4 equal parts

Fifths = 5 equal parts

Sixths = 6 equal parts

Sevenths = 7 equal parts

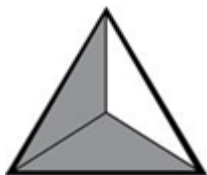
Eighths = 8 equal parts

Ninths = 9 equal parts

Tenths = 10 equal parts

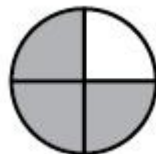
Elevenths = 11 equal parts

Twelfths = 12 equal parts



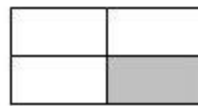
shaded $2/3$

unshaded $1/3$



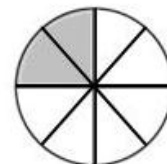
$3/4$

$1/4$



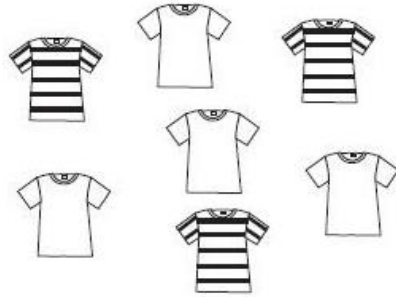
$1/4$

$3/4$

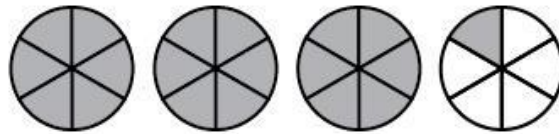


$2/8$

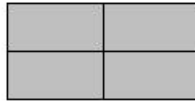
$6/8$



$\frac{3}{7}$ (three sevenths) of the shirts are striped, and $\frac{4}{7}$ (four sevenths) of the shirts are not striped.



$3 \frac{1}{5}$ (three and one fifth)



$\frac{4}{4}$ or 1

four fourths or one whole

Comparing Fractions - as the *denominator gets bigger*, the *fractional pieces get smaller*, so if the numerator is 1, the fraction with the bigger denominator is actually smaller

$$\frac{1}{2} > \frac{1}{5}$$

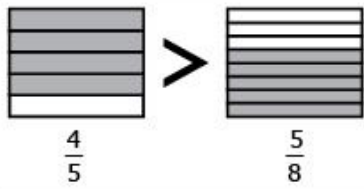
$$\frac{1}{7} < \frac{1}{4}$$

$$\frac{1}{8} > \frac{1}{10}$$

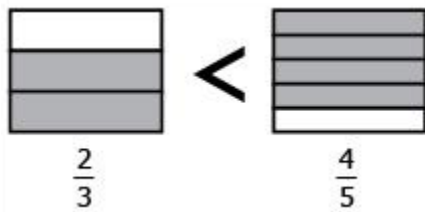
Look at the shaded area of both fractions to see which is bigger (or smaller).

$>$ greater than $=$ equal to

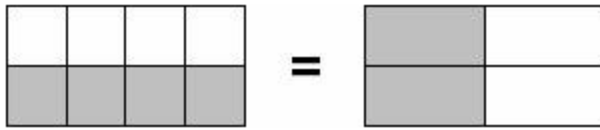
$<$ less than



Four fifths is greater than five eighths.



Two thirds is less than four fifths.



Four eighths is equal to two fourths (or one half is equal to one half).