Algebra Readiness | Fractions Concepts | Full Name _____

04 A – Worksheet 2 | Date _____ Period _____

Part I – Using estimating to compare fractions. (less than ½, between ½ and 1, more than 1)

Compare the fractions using >, <, or =. **Justify your response.**

1. *a.* $\frac{4}{5} \square \frac{3}{2}$ *b.* $\frac{4}{7} \square \frac{5}{11}$

2. *a.* $\frac{8}{9} \square \frac{2}{5}$ *b.* $\frac{13}{30} \square \frac{5}{9}$

3. *a.* $\frac{7}{5} \square \frac{6}{8}$ *b.* $\frac{7}{15} \square \frac{1}{2}$

4. *a.* $\frac{7}{12} \square \frac{2}{5}$ *b.* $\frac{6}{12} \square \frac{2}{11}$

Part II – Forms of one.

Determine whether the fraction is less than 1, greater than 1, or is **a form of 1**. Place the number in the correct box.

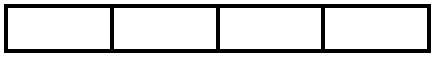
5. *a.* $\frac{7}{10}$ *b.* $\frac{12}{12}$ *c.* $\frac{15}{16}$ *d.* $\frac{5}{11}$ *e.* $\frac{2}{2}$ *f.* $\frac{4}{4}$ *g.* $\frac{5}{4}$ *h.* $\frac{50}{50}$ *i.* $\frac{15}{13}$

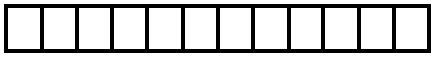
Less than 1	**Form of 1**	Greater than 1

Multiply the fractions. Then fill in the visual model for each fraction.

6. *a.* $\frac{1}{2}\left(\frac{2}{2}\right) =$ 

b. $\frac{1}{2}\left(\frac{4}{4}\right) =$ 

7. *a.* $\frac{1}{4}\left(\frac{2}{2}\right) =$ 

b. $\frac{1}{4}\left(\frac{3}{3}\right) =$ 

8. What do you notice about the shaded portions of the figures? How does multiplying by a **form of 1** affect the value of a fraction?

Part III – Equivalent fractions.

Write two equivalent fractions for the given fraction. Then fill in the visual model for each resulting fraction.

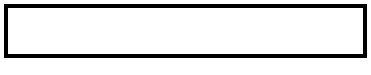
10. *Given*: $\frac{2}{3}$ 

$\frac{2}{3}\left(\frac{\quad}{\quad}\right) =$ 

$\frac{2}{3}\left(\frac{\quad}{\quad}\right) =$ 

11. *Given*: $\frac{3}{4}$ 

$\frac{3}{4}\left(\frac{\quad}{\quad}\right) =$ 

$\frac{3}{4}\left(\frac{\quad}{\quad}\right) =$ 

12. Write two equivalent fractions for the shaded portion of the model. 

13. Write two equivalent fractions for the shaded portion of the model.