Test 8: Study Guide Equivalent Fractions and Common Denominators

Name: _____   Date: _____

M5N4 Students will continue to develop their understanding of fractions and will compute them
      c. Find equivalent fractions and simplify fractions.
      e. Explore finding common denominators using concrete, pictorial, and computational models.

Find an equivalent fraction using <u>division.</u>	**Find an equivalent fraction using <u>division.</u>**
1. $\dfrac{10}{14}$ _____	**2.** $\dfrac{8}{12}$ _____
3. Archie multiplied $\dfrac{5}{6}$ by $\dfrac{3}{3}$. Is the product $\dfrac{15}{18}$ greater than, equal to, or less than $\dfrac{5}{6}$?	**4.** Freddie divided $\dfrac{15}{20}$ by $\dfrac{5}{5}$. Is the quotient $\dfrac{3}{4}$ greater than, equal to, or less than $\dfrac{15}{20}$?

5-6 Rename the fractions using the least common denominator.

5. $\dfrac{1}{3}, \;\; \dfrac{4}{5}$	**6.** $\dfrac{5}{6}, \;\; \dfrac{2}{9}$

7. Are these two fractions equivalent? $\dfrac{4}{5}$ and $\dfrac{3}{4}$	**8. Are these two fractions equivalent?** $\dfrac{1}{3}$ and $\dfrac{2}{8}$

9. Paul and Jasmine each bought a large pizza. Paul cut his into 10 equal pieces. He ate $\dfrac{8}{10}$ of it, while Jasmine decided to cut hers into 4 equal pieces and ate $\dfrac{3}{4}$ of her pizza. Who ate more pizza?	**10. Katniss ate $\dfrac{2}{6}$ of a pound of fresh fish. Harry ate $\dfrac{3}{8}$ of a pound of fish. Did they eat the same amount of fish? Justify your thinking.**

11. Which two fractions are NOT equal in value?

    A. $\dfrac{2}{3}$ and $\dfrac{4}{6}$ B. $\dfrac{2}{4}$ and $\dfrac{4}{8}$ C. $\dfrac{5}{8}$ and $\dfrac{3}{4}$ D. $\dfrac{3}{9}$ and $\dfrac{1}{3}$

12. Which of the following IS equal in value to $\dfrac{3}{4}$?

    A. $\dfrac{1}{2}$ B. $\dfrac{12}{16}$ C. $\dfrac{5}{4}$ D. $\dfrac{8}{10}$

13. Which answer choice is correct?

    A. $\dfrac{3}{4} > \dfrac{5}{6}$ B. $\dfrac{3}{4} < \dfrac{5}{6}$ C. $\dfrac{3}{4} = \dfrac{5}{6}$ D. $\dfrac{5}{6} < \dfrac{3}{4}$

14. Which of the following IS equal in value to $\dfrac{1}{6}$?

    A. $\dfrac{2}{10}$ B. $\dfrac{2}{18}$ C. $\dfrac{3}{12}$ D. $\dfrac{3}{18}$