

Homework for Wednesday 10-25-17

*Show your work!

Name: _____ Date: _____ Period: _____

Big Fractions Study Guide

Convert the following mixed numbers to improper fractions.

1. $3 \frac{4}{7} =$

2. $2 \frac{1}{8} =$

3. $6 \frac{7}{11} =$

Convert the following improper fractions to mixed numbers.

4. $\frac{34}{7} =$

5. $\frac{52}{4} =$

6. $\frac{24}{8} =$

Add or subtract the following fractions with like denominators.

7. $\frac{4}{6} - \frac{2}{6} =$

8. $\frac{15}{18} + \frac{2}{18} =$

Pl

Add or subtract the following fractions with unlike denominators.

9. $\frac{5}{7} - \frac{2}{14} =$

10. $\frac{4}{5} - \frac{7}{11} =$

11. $\frac{3}{10} + \frac{4}{5} =$

12. $\frac{4}{5} + \frac{3}{4} =$

Multiply. Write each answer in simplest form.

13) $5 \cdot \frac{1}{5} =$

14) $\frac{5}{12} \cdot \frac{6}{7} =$

15) $5\frac{3}{8} \cdot 2\frac{2}{7} =$

16) $\frac{4}{9} : 8 =$

17) $\frac{3}{14} \cdot 2\frac{5}{8} =$

18) $\frac{10}{11} \cdot \frac{3}{5} =$

Write the reciprocal of each fraction.

19) $\frac{4}{7} = \underline{\hspace{2cm}}$

20) $\frac{9}{15} = \underline{\hspace{2cm}}$

21) $4 = \underline{\hspace{2cm}}$

22) $\frac{2}{5} = \underline{\hspace{2cm}}$

23) $10 = \underline{\hspace{2cm}}$

24) $\frac{5}{6} = \underline{\hspace{2cm}}$

Divide. Write each answer in simplest form.

25) $\frac{2}{3} \div \frac{1}{6} = \underline{\hspace{2cm}}$

26) $9 \div \frac{3}{4} = \underline{\hspace{2cm}}$

27) $4\frac{1}{2} \div 2\frac{3}{8} = \underline{\hspace{2cm}}$

28) $\frac{7}{9} \div 5\frac{4}{9} = \underline{\hspace{2cm}}$

29) $\frac{7}{10} \div 2\frac{5}{8} = \underline{\hspace{2cm}}$

30) $7 \div 1\frac{1}{2} = \underline{\hspace{2cm}}$

31) **RECIPE** A recipe make $5\frac{1}{2}$ dozen cookies. Marquis needs to make $3\frac{3}{4}$ times this amount. How many dozens of cookies will he make?

32) **QUILT** A quilt measures $4\frac{2}{3}$ feet by 6 feet. What is the area of the quilt?

33) **NUTS** A package contains $14\frac{3}{8}$ cups of nuts. Each serving is $1\frac{1}{4}$ cups. How many servings does the package contain?

34) **FRUIT** A package contains $13\frac{1}{16}$ cups of fruit salad. Each serving is $1\frac{3}{8}$ cups. How many servings does the package contain?

35) **CHAIN** Duane bought $68\frac{3}{4}$ inches of chain for an art project. How many 15-inch chains can he make from it?