



- \*20 questions
- \*NO Calculators
- \*Show all work/steps- use separate paper
- \*Recommend time frame 45min -60min

### Concept of Fractions and Decimals

1. True or false: you can always rewrite a fraction into a decimal number?
2. Define "Lowest Common Denominator"
3. When adding fractions you must always check if the denominators are the same?
4. Explain how to rewrite  $\frac{1}{3}$  and  $\frac{2}{5}$  such that they have a common denominator
5. Classify the fraction  $\frac{13}{7}$  as a mixed number, improper fraction or proper fraction?
6. Write a fraction that is equal in value to the decimal 1.75

### Multiplying and Dividing Fractions

*Directions- simplify the following problems- make sure you completely reduced your answers*

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

8.  $\frac{6}{7} \cdot \frac{3}{2}$

9.  $3\frac{1}{4} \cdot 2\frac{3}{5}$

10.  $\frac{5}{3} \div \frac{4}{5}$

11.  $\frac{2}{7} \div \frac{4}{3}$

12.  $6\frac{1}{5} \div 2\frac{1}{3}$

13.  $9\frac{2}{7} \cdot 10\frac{3}{5}$

Adding and Subtracting Fractions

*Directions- simplify the following problems- make sure you completely reduced your answers*

14.  $\frac{5}{3} + \frac{4}{3}$

15.  $\frac{5}{7} + \frac{1}{3}$

16.  $\frac{3}{8} - \frac{1}{5}$

17.  $7\frac{3}{4} + 9\frac{1}{2}$

18.  $11\frac{7}{8} - 6\frac{4}{5}$

19.  $\left(3\frac{1}{3}\right) \cdot \left(5\frac{2}{5}\right) \div \frac{1}{4} + 7$

20.  $\left[\left(6\frac{1}{2}\right) \div \left(2\frac{2}{3}\right) \cdot 3\frac{1}{5}\right] - \left(\frac{4}{9} + 3\right)$