

WORKSHEET

Name: _____

Date: _____

Properties of Addition for Fractions

Use the properties of addition to solve each of the following problems:

Example: $\left(\frac{2}{8} + 4\frac{2}{6}\right) + 3\frac{2}{8} = ?$

Remember that: $a + b = b + a$

$(a + b) + c = a + (b + c)$

$$\left(\frac{2}{8} + 4\frac{2}{6}\right) + 3\frac{2}{8} = \left(4\frac{2}{6} + \frac{2}{8}\right) + 3\frac{2}{8} \quad \text{Use the commutative property}$$

$$\left(4\frac{2}{6} + \frac{2}{8}\right) + 3\frac{2}{8} = 4\frac{2}{6} + \left(\frac{2}{8} + 3\frac{2}{8}\right) \quad \text{Use the associative property}$$

$$4\frac{2}{6} + \left(\frac{2}{8} + 3\frac{2}{8}\right) = 4\frac{2}{6} + 3\frac{4}{8} \quad \text{Add the fractions with like denominators}$$

$$4\frac{2}{6} + 3\frac{4}{8} = \quad \text{Make the two fractions with like denominators}$$

$$4\frac{8}{24} + 3\frac{12}{24} = 7\frac{20}{24} \quad \text{Add the fractions with like denominators}$$

a) $\left(\frac{1}{3} + \frac{4}{6}\right) + \frac{1}{3} = ?$

$$\text{b) } \left(\frac{2}{4} + 1\frac{5}{6}\right) + \frac{1}{4} = ?$$

$$\text{c) } 11\frac{1}{6} + \left(5\frac{17}{18} + 3\frac{4}{6}\right) = ?$$

$$\text{d) } \left(\frac{3}{5} + \frac{5}{7}\right) + 10\frac{2}{5} = ?$$

$$\text{e) } 6\frac{7}{12} + \left(6\frac{4}{9} + 6\frac{2}{12}\right) = ?$$

END OF WORKSHEET