

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**HW Section 2.b Adding and Subtracting Fractions**

1. Show all your steps when adding or subtracting the following fractions

a) $\frac{9}{24} + \frac{12}{18}$	b) $\frac{45}{81} + \frac{10}{27}$
c) $\frac{7}{15} + \frac{22}{30}$	d) $\frac{12}{45} + \frac{3}{5}$
e) $\frac{13}{22} + \frac{8}{33}$	f) $\frac{16}{25} + \frac{8}{15}$
g) $\frac{17}{30} + \frac{23}{60}$	h) $\frac{22}{56} + \frac{7}{8}$
i) $\frac{11}{28} + \frac{17}{21}$	j) $\frac{23}{51} - \frac{8}{17}$

k) $\frac{5}{6} - \frac{13}{24}$	l) $\frac{37}{45} - \frac{4}{15}$
m) $\frac{17}{18} - \frac{5}{12}$	o) $\frac{17}{36} - \frac{6}{16}$
p) $\frac{13}{18} - \frac{16}{27}$	q) $\frac{65}{52} - \frac{11}{13}$
r) $5\frac{1}{2} + 2\frac{2}{3}$	s) $7\frac{9}{10} - 2\frac{16}{20}$
t) $9\frac{6}{7} - 5\frac{2}{14}$	u) $2\frac{3}{10} - 3\frac{13}{20}$

$$v) 5\frac{2}{3} - 2\frac{5}{8}$$

$$w) 3\frac{1}{2} + 2\frac{1}{3} - 4\frac{1}{4}$$

$$x) 2\frac{2}{10} - 3\frac{1}{5} + 5\frac{2}{15}$$

$$y) 3\frac{1}{2} + 2\frac{6}{18} - 1\frac{1}{4}$$

$$i) 1\frac{2}{12} + 2\frac{1}{4} - \frac{2}{3}$$

$$ii) \frac{10}{3} - \frac{22}{4} + \frac{55}{6}$$

$$iii) \frac{26}{5} + \frac{33}{10} - \frac{18}{20}$$

$$iv) \frac{34}{12} - \frac{33}{18} + \frac{35}{24}$$

- 2 The number represented by  $\square$  so that  $\frac{1}{2} + \frac{1}{4} = \frac{\square}{12}$  is  
(A) 3 (B) 12 (C) 9 (D) 6 (E) 15
- 3 Consider the set of fractions  $\{\frac{3}{7}, \frac{3}{2}, \frac{6}{7}, \frac{3}{5}\}$ . Ordered from smallest to largest, the set is  
(A)  $\{\frac{3}{7}, \frac{3}{5}, \frac{6}{7}, \frac{3}{2}\}$  (B)  $\{\frac{3}{2}, \frac{3}{5}, \frac{6}{7}, \frac{3}{7}\}$  (C)  $\{\frac{3}{2}, \frac{3}{5}, \frac{3}{7}, \frac{6}{7}\}$   
(D)  $\{\frac{3}{5}, \frac{3}{7}, \frac{6}{7}, \frac{3}{2}\}$  (E)  $\{\frac{3}{7}, \frac{3}{5}, \frac{3}{2}, \frac{6}{7}\}$
- 4 The largest number in the list  $\{\frac{3}{10}, \frac{9}{20}, \frac{12}{25}, \frac{27}{50}, \frac{49}{100}\}$  is  
(A)  $\frac{3}{10}$  (B)  $\frac{9}{20}$  (C)  $\frac{12}{25}$  (D)  $\frac{27}{50}$  (E)  $\frac{49}{100}$
- 5 The smallest number in the set  $\{\frac{1}{2}, \frac{2}{3}, \frac{1}{4}, \frac{5}{6}, \frac{7}{12}\}$  is  
(A)  $\frac{1}{2}$  (B)  $\frac{2}{3}$  (C)  $\frac{1}{4}$  (D)  $\frac{5}{6}$  (E)  $\frac{7}{12}$
- 6 The number 0.2012 is between  
(A) 0 and  $\frac{1}{10}$  (B)  $\frac{1}{10}$  and  $\frac{1}{5}$  (C)  $\frac{1}{5}$  and  $\frac{1}{4}$  (D)  $\frac{1}{4}$  and  $\frac{1}{3}$  (E)  $\frac{1}{3}$  and  $\frac{1}{2}$
- 7 Ronald buys a pizza cut into 12 equal parts. He then cuts each part into 2 equal pieces. If he eats 3 of these pieces, what fraction of the pizza does he eat?  
(A)  $\frac{1}{24}$  (B)  $\frac{1}{2}$  (C)  $\frac{3}{8}$  (D)  $\frac{1}{6}$  (E)  $\frac{1}{8}$