Math 9 - Unit 1: Real Numbers Name Solution

Homework #3 - Adding and Subtracting Fractions

Date_____ 5K____

Add or Subtract the Fractions.

1) $\frac{2}{5} + \frac{7}{4}$ CD = 20

$= \frac{8}{20} + \frac{35}{20}$

$= \frac{43}{20}$

2) $\frac{2}{1} + \frac{3}{5}$ CD = 5

$= \frac{10}{5} + \frac{3}{5}$

$= \frac{13}{5}$

3) $\frac{7}{4} + \frac{1}{3}$ CD = 12

$= \frac{21}{12} + \frac{4}{12}$

$= \frac{25}{12}$

4) $\frac{4}{3} + \frac{7}{8}$ CD = 24

$= \frac{32}{24} + \frac{21}{24}$

$= \frac{53}{24}$

5) $\frac{2}{1} - \frac{3}{2}$ CD = 2

$= \frac{4}{2} - \frac{3}{2}$

$= \frac{1}{2}$

6) $\frac{3}{4} + \frac{15}{8}$ CD = 8

$= \frac{6}{8} + \frac{15}{8}$

$= \frac{21}{8}$

7) $\frac{6}{5} - \frac{1}{4}$ CD = 20

$= \frac{24}{20} - \frac{5}{20}$

$= \frac{19}{20}$

8) $\frac{4}{3} + \frac{1}{4}$ CD = 12

$= \frac{16}{12} + \frac{3}{12}$

$= \frac{19}{12}$

9) $\frac{13}{7} - \frac{5}{4}$ CD = 28

$= \frac{52}{28} - \frac{35}{28}$

$= \frac{17}{28}$

10) $\frac{9}{7} + \frac{3}{2}$ CD = 14

$= \frac{18}{14} + \frac{21}{14}$

$= \frac{39}{14}$

11) $\frac{1}{5}+\frac{2}{1}+\frac{5}{3}$ CD = 15

$= \frac{3}{15}+\frac{30}{15}+\frac{25}{15}$

$= \frac{58}{15}$

12) $\frac{1}{2}-\frac{1}{3}+\frac{7}{1}$ CD = 6

$= \frac{3}{6}-\frac{2}{6}+\frac{42}{6}$

$= \frac{43}{6}$

13) $\frac{3}{1}-\frac{4}{3}-\frac{5}{3}$ CD = 3

$= \frac{9}{3}-\frac{4}{3}-\frac{5}{3}$

$= \frac{0}{3} = 0$

14) $\frac{8}{5}+\frac{7}{4}+\frac{2}{1}$ CD = 20

$= \frac{32}{20}+\frac{35}{20}+\frac{40}{20}$

$= \frac{107}{20}$

15) $\frac{1}{4}+\frac{4}{3}-\frac{1}{8}$ CD = 24

$= \frac{6}{24}+\frac{32}{24}-\frac{3}{24}$

$= \frac{35}{24}$

16) $\frac{2}{1}-\frac{3}{2}+\frac{11}{7}$ CD = 14

$= \frac{28}{14}-\frac{21}{14}+\frac{22}{14}$

$= \frac{29}{14}$

17) $\frac{7}{4}+\frac{2}{1}-\frac{1}{2}-\frac{5}{7}$ CD = 28

$= \frac{49}{28}+\frac{56}{28}-\frac{14}{28}-\frac{10}{28}$

$= \frac{81}{28}$

18) $\frac{3}{4}+\frac{4}{7}+\frac{6}{1}+\frac{7}{8}$ CD = 56

$= \frac{42}{56}+\frac{32}{56}+\frac{336}{56}+\frac{49}{56}$

$= \frac{459}{56}$

19) $\frac{6}{5}+\frac{5}{4}+\frac{1}{2}-\frac{3}{2}$ CD = 20

$= \frac{24}{20}+\frac{25}{20}+\frac{10}{20}-\frac{30}{20}$

$= \frac{29}{20}$

20) $\frac{5}{4}-\frac{5}{7}-\frac{1}{6}+\frac{1}{4}$ CD = 84

$= \frac{105}{84}-\frac{60}{84}-\frac{14}{84}+\frac{21}{84}$

$= \frac{52}{84} \div 4 = \frac{13}{21}$