Worksheet

04/29/2018

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Problem quickname: 6408

1)

Quick: 6408

Calculate the result.

a) $\frac{7}{24} - \frac{1}{8} - \frac{1}{48}$ | convert to like quantities (lcm): 48

$= \frac{14}{48} - \frac{6}{48} - \frac{1}{48}$ | add numerators

$= \frac{7}{48}$

b) $\frac{11}{42} - \frac{1}{42} - \frac{1}{7}$ | convert to like quantities (lcm): 42

$= \frac{11}{42} - \frac{1}{42} - \frac{6}{42}$ | add numerators

$= \frac{4}{42}$ | reduce

$= \frac{2}{21}$

c) $\frac{10}{21} + \frac{5}{42} - \frac{2}{7}$ | convert to like quantities (lcm): 42

$= \frac{20}{42} + \frac{5}{42} - \frac{12}{42}$ | add numerators

$= \frac{13}{42}$

d) $\frac{19}{48} + \frac{25}{48} - \frac{5}{6}$ | convert to like quantities (lcm): 48

$= \frac{19}{48} + \frac{25}{48} - \frac{40}{48}$ | add numerators

$= \frac{4}{48}$ | reduce

$= \frac{1}{12}$

e) $\frac{10}{37} - \frac{3}{37} - \frac{5}{37}$ | convert to like quantities (lcm): 37

$= \frac{10}{37} - \frac{3}{37} - \frac{5}{37}$ | add numerators

$= \frac{2}{37}$

f) $\frac{14}{39} - \frac{3}{13} + \frac{25}{39}$ | convert to like quantities (lcm): 39

$= \frac{14}{39} - \frac{9}{39} + \frac{25}{39}$ | add numerators

$= \frac{30}{39}$ | reduce

$= \frac{10}{13}$

g) $\frac{5}{36} + \frac{19}{36} - \frac{5}{9}$ | convert to like quantities (lcm): 36

$= \frac{5}{36} + \frac{19}{36} - \frac{20}{36}$ | add numerators

$= \frac{4}{36}$ | reduce

$= \frac{1}{9}$

h) $\frac{15}{37} + \frac{19}{37} - \frac{13}{37}$ | convert to like quantities (lcm): 37

$= \frac{15}{37} + \frac{19}{37} - \frac{13}{37}$ | add numerators

$= \frac{21}{37}$

2)

Quick: 6408

Calculate the result.

a) $8\frac{6}{11} + 2 - \frac{4}{11} - 2$ | convert to like quantities (lcm): 11

$= \frac{94}{11} + \frac{22}{11} - \frac{4}{11} - \frac{22}{11}$ | add numerators

$= \frac{90}{11} = 8\frac{2}{11}$

b) $\frac{1}{7} - \frac{3}{28} + \frac{4}{21} + \frac{25}{84}$ | convert to like quantities (lcm): 84

$= \frac{12}{84} - \frac{9}{84} + \frac{16}{84} + \frac{25}{84}$ | add numerators

$= \frac{44}{84}$ | reduce

$= \frac{11}{21}$

c) $2\frac{8}{43} - 1\frac{17}{43} + 2\frac{8}{43} - 2\frac{13}{43}$ | convert to like quantities (lcm): 43

$= \frac{94}{43} - \frac{60}{43} + \frac{94}{43} - \frac{99}{43}$ | add numerators

$= \frac{29}{43}$

d) $5\frac{3}{5} + 5\frac{11}{15} + 6\frac{8}{15} - 8\frac{13}{15}$ | convert to like quantities (lcm): 15

$= \frac{84}{15} + \frac{86}{15} + \frac{98}{15} - \frac{133}{15}$ | add numerators

$= \frac{135}{15}$ | reduce

$= \frac{9}{1} = 9$

3)

Quick: 6408

Calculate the result.

a) $\frac{8}{1} + \frac{35}{9}$ | convert to like quantities (lcm): 9

$= \frac{72}{9} + \frac{35}{9}$ | add numerators

$= \frac{107}{9} = 11\frac{8}{9}$

b) $\frac{8}{13} + \frac{29}{78}$ | convert to like quantities (lcm): 78

$= \frac{48}{78} + \frac{29}{78}$ | add numerators

$= \frac{77}{78}$

c) $\frac{25}{11} + \frac{97}{11}$ | convert to like quantities (lcm): 11

$= \frac{25}{11} + \frac{97}{11}$ | add numerators

$= \frac{122}{11} = 11\frac{1}{11}$

d) $\frac{44}{53} + \frac{98}{53}$ | convert to like quantities (lcm): 53

$= \frac{44}{53} + \frac{98}{53}$ | add numerators

$= \frac{142}{53} = 2\frac{36}{53}$

e) $\frac{86}{5} + \frac{61}{5}$ | convert to like quantities (lcm): 5

$= \frac{86}{5} + \frac{61}{5}$ | add numerators

$= \frac{147}{5} = 29\frac{2}{5}$

f) $\frac{47}{44} + \frac{19}{22}$ | convert to like quantities (lcm): 44

$= \frac{47}{44} + \frac{38}{44}$ | add numerators

$= \frac{85}{44} = 1\frac{41}{44}$

g) $\frac{16}{45} + \frac{16}{15}$ | convert to like quantities (lcm): 45

$= \frac{16}{45} + \frac{48}{45}$ | add numerators

$= \frac{64}{45} = 1\frac{19}{45}$

h) $\frac{32}{27} + \frac{29}{18}$ | convert to like quantities (lcm): 54

$= \frac{64}{54} + \frac{87}{54}$ | add numerators

$= \frac{151}{54} = 2\frac{43}{54}$

i) $\frac{5}{37} + \frac{97}{74}$ | convert to like quantities (lcm): 74

$= \frac{10}{74} + \frac{97}{74}$ | add numerators

$= \frac{107}{74} = 1\frac{33}{74}$

j) $\frac{41}{9} + \frac{56}{9}$ | convert to like quantities (lcm): 9

$= \frac{41}{9} + \frac{56}{9}$ | add numerators

$= \frac{97}{9} = 10\frac{7}{9}$

4)

Quick: 6408

Calculate the result.

a) $\frac{8}{87} - \frac{4}{87} + \frac{23}{87} + \frac{43}{87}$ | convert to like quantities (lcm): 87

$= \frac{8}{87} - \frac{4}{87} + \frac{23}{87} + \frac{43}{87}$ | add numerators

$= \frac{70}{87}$

b) $\frac{3}{25} - \frac{1}{15} + \frac{34}{75} - \frac{32}{75}$ | convert to like quantities (lcm): 75

$= \frac{9}{75} - \frac{5}{75} + \frac{34}{75} - \frac{32}{75}$ | add numerators

$= \frac{6}{75}$ | reduce

$= \frac{2}{25}$

c) $\frac{2}{39} + \frac{5}{13} - \frac{8}{39} + \frac{9}{13}$ | convert to like quantities (lcm): 39

$= \frac{2}{39} + \frac{15}{39} - \frac{8}{39} + \frac{27}{39}$ | add numerators

$= \frac{36}{39}$ | reduce

$= \frac{12}{13}$

d) $\frac{38}{85} + \frac{32}{85} - \frac{24}{85} - \frac{8}{85}$ | convert to like quantities (lcm): 85

$= \frac{38}{85} + \frac{32}{85} - \frac{24}{85} - \frac{8}{85}$ | add numerators

$= \frac{38}{85}$

e) $\frac{55}{86} - \frac{15}{86} - \frac{9}{43} - \frac{1}{43}$ | convert to like quantities (lcm): 86

$= \frac{55}{86} - \frac{15}{86} - \frac{18}{86} - \frac{2}{86}$ | add numerators

$= \frac{20}{86}$ | reduce

$= \frac{10}{43}$

f) $\frac{16}{77} - \frac{1}{11} + \frac{20}{77} + \frac{39}{77}$ | convert to like quantities (lcm): 77

$= \frac{16}{77} - \frac{7}{77} + \frac{20}{77} + \frac{39}{77}$ | add numerators

$= \frac{68}{77}$

g) $\frac{4}{45} + \frac{4}{15} + \frac{4}{45} + \frac{7}{15}$ | convert to like quantities (lcm): 45

$= \frac{4}{45} + \frac{12}{45} + \frac{4}{45} + \frac{21}{45}$ | add numerators

$= \frac{41}{45}$

h) $\frac{5}{72} - \frac{1}{24} - \frac{1}{72} + \frac{7}{8}$ | convert to like quantities (lcm): 72

$= \frac{5}{72} - \frac{3}{72} - \frac{1}{72} + \frac{63}{72}$ | add numerators

$= \frac{64}{72}$ | reduce

$= \frac{8}{9}$

i) $\frac{2}{7} - \frac{5}{28} + \frac{11}{42} - \frac{13}{42}$ | convert to like quantities (lcm): 84

$= \frac{24}{84} - \frac{15}{84} + \frac{22}{84} - \frac{26}{84}$ | add numerators

$= \frac{5}{84}$

j) $\frac{11}{73} - \frac{5}{73} + \frac{13}{73} + \frac{31}{73}$ | convert to like quantities (lcm): 73

$= \frac{11}{73} - \frac{5}{73} + \frac{13}{73} + \frac{31}{73}$ | add numerators

$= \frac{50}{73}$

Good Luck!