

Worksheet

04/29/2018

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Problem quickname: 6408

1)

Calculate the result.

Quick:
6408

a) $\frac{31}{41} - \frac{6}{41} - \frac{7}{41}$ | convert to like quantities (lcm): 41
 $= \frac{31}{41} - \frac{6}{41} - \frac{7}{41}$ | add numerators
 $= \frac{18}{41}$

b) $\frac{9}{22} - \frac{2}{11} - \frac{1}{11}$ | convert to like quantities (lcm): 22
 $= \frac{9}{22} - \frac{4}{22} - \frac{2}{22}$ | add numerators
 $= \frac{3}{22}$

c) $\frac{5}{43} - \frac{3}{43} + \frac{20}{43}$ | convert to like quantities (lcm): 43
 $= \frac{5}{43} - \frac{3}{43} + \frac{20}{43}$ | add numerators
 $= \frac{22}{43}$

d) $\frac{9}{37} + \frac{7}{37} + \frac{10}{37}$ | convert to like quantities (lcm): 37
 $= \frac{9}{37} + \frac{7}{37} + \frac{10}{37}$ | add numerators
 $= \frac{26}{37}$

e) $\frac{9}{46} + \frac{1}{2} - \frac{5}{23}$ | convert to like quantities (lcm): 46
 $= \frac{9}{46} + \frac{23}{46} - \frac{10}{46}$ | add numerators
 $= \frac{22}{46}$ | reduce
 $= \frac{11}{23}$

f) $\frac{5}{39} - \frac{2}{39} + \frac{32}{39}$ | convert to like quantities (lcm): 39
 $= \frac{5}{39} - \frac{2}{39} + \frac{32}{39}$ | add numerators
 $= \frac{35}{39}$

g) $\frac{11}{36} + \frac{5}{18} - \frac{5}{18}$ | convert to like quantities (lcm): 36

$$= \frac{11}{36} + \frac{10}{36} - \frac{10}{36}$$
 | add numerators

$$= \frac{11}{36}$$

h) $\frac{1}{9} - \frac{1}{18} + \frac{17}{36}$ | convert to like quantities (lcm): 36

$$= \frac{4}{36} - \frac{2}{36} + \frac{17}{36}$$
 | add numerators

$$= \frac{19}{36}$$

2)

Calculate the result.

Quick:
6408

a) $1\frac{17}{29} - \frac{19}{29} + \frac{15}{29} - \frac{5}{29}$ | convert to like quantities (lcm): 29

$$= \frac{46}{29} - \frac{19}{29} + \frac{15}{29} - \frac{5}{29}$$
 | add numerators

$$= \frac{37}{29} = 1\frac{8}{29}$$

b) $1\frac{1}{79} + \frac{45}{79} + 1\frac{17}{79} - 2\frac{37}{79}$ | convert to like quantities (lcm): 79

$$= \frac{80}{79} + \frac{45}{79} + \frac{96}{79} - \frac{195}{79}$$
 | add numerators

$$= \frac{26}{79}$$

c) $2\frac{26}{33} + \frac{16}{33} - \frac{29}{33} - 1\frac{2}{33}$ | convert to like quantities (lcm): 33

$$= \frac{92}{33} + \frac{16}{33} - \frac{29}{33} - \frac{35}{33}$$
 | add numerators

$$= \frac{44}{33}$$
 | reduce

$$= \frac{4}{3} = 1\frac{1}{3}$$

d) $1\frac{21}{25} - \frac{11}{25} - \frac{3}{25} - \frac{23}{25}$ | convert to like quantities (lcm): 25

$$= \frac{46}{25} - \frac{11}{25} - \frac{3}{25} - \frac{23}{25}$$
 | add numerators

$$= \frac{9}{25}$$

3)

Calculate the result.

Quick:
6408

a) $\frac{97}{73} + \frac{14}{73}$ | convert to like quantities (lcm): 73

$$= \frac{97}{73} + \frac{14}{73} \mid \text{add numerators}$$

$$= \frac{111}{73} = 1\frac{38}{73}$$

b) $\frac{43}{96} + \frac{5}{24}$ | convert to like quantities (lcm): 96

$$= \frac{43}{96} + \frac{20}{96} \mid \text{add numerators}$$

$$= \frac{63}{96} \mid \text{reduce}$$

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

c) $\frac{27}{28} + \frac{43}{42}$ | convert to like quantities (lcm): 84

$$= \frac{81}{84} + \frac{86}{84} \mid \text{add numerators}$$

$$= \frac{167}{84} = 1\frac{83}{84}$$

d) $\frac{29}{83} + \frac{33}{83}$ | convert to like quantities (lcm): 83

$$= \frac{29}{83} + \frac{33}{83} \mid \text{add numerators}$$

$$= \frac{62}{83}$$

e) $\frac{6}{89} + \frac{57}{89}$ | convert to like quantities (lcm): 89

$$= \frac{6}{89} + \frac{57}{89} \mid \text{add numerators}$$

$$= \frac{63}{89}$$

f) $\frac{49}{48} + \frac{29}{16}$ | convert to like quantities (lcm): 48

$$= \frac{49}{48} + \frac{87}{48} \mid \text{add numerators}$$

$$= \frac{136}{48} \mid \text{reduce}$$

$$= \frac{17}{6} = 2\frac{5}{6}$$

g) $\frac{1}{18} + \frac{26}{27}$ | convert to like quantities (lcm): 54

$$= \frac{3}{54} + \frac{52}{54} \mid \text{add numerators}$$

$$= \frac{55}{54} = 1\frac{1}{54}$$

h) $\frac{9}{38} + \frac{23}{19}$ | convert to like quantities (lcm): 38

$$= \frac{9}{38} + \frac{46}{38} \mid \text{add numerators}$$

$$= \frac{55}{38} = 1\frac{17}{38}$$

i) $\frac{43}{9} + \frac{19}{3}$ | convert to like quantities (lcm): 9

$$= \frac{43}{9} + \frac{57}{9} \mid \text{add numerators}$$

$$= \frac{100}{9} = 11\frac{1}{9}$$

j) $\frac{53}{96} + \frac{3}{4}$ | convert to like quantities (lcm): 96

$$= \frac{53}{96} + \frac{72}{96} \mid \text{add numerators}$$

$$= \frac{125}{96} = 1\frac{29}{96}$$

4)

Quick:
6408

Calculate the result.

a) $\frac{29}{91} - \frac{12}{91} + \frac{24}{91} + \frac{32}{91}$ | convert to like quantities (lcm): 91

$$= \frac{29}{91} - \frac{12}{91} + \frac{24}{91} + \frac{32}{91} \mid \text{add numerators}$$

$$= \frac{73}{91}$$

b) $\frac{19}{97} + \frac{5}{97} - \frac{10}{97} - \frac{1}{97}$ | convert to like quantities (lcm): 97

$$= \frac{19}{97} + \frac{5}{97} - \frac{10}{97} - \frac{1}{97} \mid \text{add numerators}$$

$$= \frac{13}{97}$$

c) $\frac{5}{38} + \frac{7}{38} - \frac{5}{38} - \frac{5}{76}$ | convert to like quantities (lcm): 76

$$= \frac{10}{76} + \frac{14}{76} - \frac{10}{76} - \frac{5}{76} \mid \text{add numerators}$$

$$= \frac{9}{76}$$

d) $\frac{13}{96} + \frac{3}{32} + \frac{5}{32} + \frac{25}{96}$ | convert to like quantities (lcm): 96

$$= \frac{13}{96} + \frac{9}{96} + \frac{15}{96} + \frac{25}{96} \mid \text{add numerators}$$

$$= \frac{62}{96} \mid \text{reduce}$$

$$= \frac{31}{48}$$

e) $\frac{43}{49} - \frac{23}{98} - \frac{1}{14} - \frac{31}{98}$ | convert to like quantities (lcm): 98

$$= \frac{86}{98} - \frac{23}{98} - \frac{7}{98} - \frac{31}{98} \mid \text{add numerators}$$

$$= \frac{25}{98}$$

f) $\frac{3}{17} - \frac{1}{17} + \frac{2}{17} - \frac{2}{85}$ | convert to like quantities (lcm): 85

$$= \frac{15}{85} - \frac{5}{85} + \frac{10}{85} - \frac{2}{85} \mid \text{add numerators}$$

$$= \frac{18}{85}$$

g) $\frac{6}{29} - \frac{5}{87} - \frac{5}{87} - \frac{5}{87}$ | convert to like quantities (lcm): 87

$$= \frac{18}{87} - \frac{5}{87} - \frac{5}{87} - \frac{5}{87} \mid \text{add numerators}$$

$$= \frac{3}{87} \mid \text{reduce}$$

$$= \frac{1}{29}$$

h) $\frac{19}{86} + \frac{9}{86} - \frac{17}{86} + \frac{16}{43}$ | convert to like quantities (lcm): 86

$$= \frac{19}{86} + \frac{9}{86} - \frac{17}{86} + \frac{32}{86} \mid \text{add numerators}$$

$$= \frac{43}{86} \mid \text{reduce}$$

$$= \frac{1}{2}$$

i) $\frac{5}{19} - \frac{15}{76} + \frac{13}{38} + \frac{3}{38}$ | convert to like quantities (lcm): 76

$$= \frac{20}{76} - \frac{15}{76} + \frac{26}{76} + \frac{6}{76} \mid \text{add numerators}$$

$$= \frac{37}{76}$$

j) $\frac{27}{73} - \frac{18}{73} - \frac{8}{73} + \frac{69}{73}$ | convert to like quantities (lcm): 73

$$= \frac{27}{73} - \frac{18}{73} - \frac{8}{73} + \frac{69}{73} \mid \text{add numerators}$$

$$= \frac{70}{73}$$

Good Luck!