

Worksheet

02/23/2020

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Problem quickname: 7408

1)

Convert every improper fraction to a mixed number and every mixed number to an improper fraction.

Quick:
7408

$$\begin{array}{ll} \text{a) } \frac{56}{20} = \frac{2 \cdot 20 + 16}{20} = 2\frac{16}{20} = 2\frac{4}{5} & \text{b) } 3\frac{28}{69} = \frac{3 \cdot 69 + 28}{69} = \frac{235}{69} \\ \text{c) } \frac{149}{49} = \frac{3 \cdot 49 + 2}{49} = 3\frac{2}{49} & \text{d) } \frac{77}{24} = \frac{3 \cdot 24 + 5}{24} = 3\frac{5}{24} \\ \text{e) } 3\frac{62}{76} = \frac{3 \cdot 76 + 62}{76} = \frac{290}{76} = \frac{145}{38} & \text{f) } \frac{156}{67} = \frac{2 \cdot 67 + 22}{67} = 2\frac{22}{67} \\ \text{g) } 3\frac{28}{34} = \frac{3 \cdot 34 + 28}{34} = \frac{130}{34} = \frac{65}{17} & \text{h) } 2\frac{29}{43} = \frac{2 \cdot 43 + 29}{43} = \frac{115}{43} \\ \text{i) } 4\frac{51}{74} = \frac{4 \cdot 74 + 51}{74} = \frac{347}{74} & \text{j) } \frac{420}{91} = \frac{4 \cdot 91 + 56}{91} = 4\frac{56}{91} = 4\frac{8}{13} \end{array}$$

2)

Convert every improper fraction to a mixed number and every mixed number to an improper fraction.

Quick:
7408

$$\begin{array}{lll} \text{a) } \frac{104}{29} = \frac{3 \cdot 29 + 17}{29} = 3\frac{17}{29} & \text{b) } 2\frac{23}{60} = \frac{2 \cdot 60 + 23}{60} = \frac{143}{60} & \text{c) } 3\frac{15}{29} = \frac{3 \cdot 29 + 15}{29} = \frac{102}{29} \\ \text{d) } 3\frac{16}{20} = \frac{3 \cdot 20 + 16}{20} = \frac{76}{20} = \frac{19}{5} & \text{e) } 4\frac{21}{23} = \frac{4 \cdot 23 + 21}{23} = \frac{113}{23} & \\ \text{f) } 4\frac{13}{20} = \frac{4 \cdot 20 + 13}{20} = \frac{93}{20} & \text{g) } 5\frac{38}{55} = \frac{5 \cdot 55 + 38}{55} = \frac{313}{55} & \\ \text{h) } 4\frac{20}{65} = \frac{4 \cdot 65 + 20}{65} = \frac{280}{65} = \frac{56}{13} & \text{i) } \frac{36}{27} = \frac{1 \cdot 27 + 9}{27} = 1\frac{9}{27} = 1\frac{1}{3} & \\ \text{j) } 2\frac{14}{21} = \frac{2 \cdot 21 + 14}{21} = \frac{56}{21} = \frac{8}{3} & & \end{array}$$

3)

Convert every improper fraction to a mixed number and every mixed number to an improper fraction. Reduce the result to lowest terms.

Quick:
7408

$$\begin{array}{ll} \text{a) } \frac{76}{27} = \frac{2 \cdot 27 + 22}{27} = 2\frac{22}{27} & \text{b) } 3\frac{16}{42} = \frac{3 \cdot 42 + 16}{42} = \frac{142}{42} = \frac{71}{21} \\ \text{c) } 5\frac{26}{47} = \frac{5 \cdot 47 + 26}{47} = \frac{261}{47} & \text{d) } 2\frac{5}{15} = \frac{2 \cdot 15 + 5}{15} = \frac{35}{15} = \frac{7}{3} \\ \text{e) } 1\frac{8}{38} = \frac{1 \cdot 38 + 8}{38} = \frac{46}{38} = \frac{23}{19} & \text{f) } 4\frac{16}{27} = \frac{4 \cdot 27 + 16}{27} = \frac{124}{27} \end{array}$$

4)

Convert every improper fraction to a mixed number and every mixed number to an improper fraction. Reduce the result to lowest terms.

Quick:
7408

$$\begin{array}{lll} \text{a) } \frac{49}{30} = \frac{1 \cdot 30 + 19}{30} = 1\frac{19}{30} & \text{b) } 4\frac{17}{34} = \frac{4 \cdot 34 + 17}{34} = \frac{153}{34} = \frac{9}{2} & \\ \text{c) } 2\frac{35}{43} = \frac{2 \cdot 43 + 35}{43} = \frac{121}{43} & \text{d) } 3\frac{4}{16} = \frac{3 \cdot 16 + 4}{16} = \frac{52}{16} = \frac{13}{4} & \text{e) } 2\frac{4}{41} = \frac{2 \cdot 41 + 4}{41} = \frac{86}{41} \end{array}$$

Solutions to smp-7408-2/ISQS

$$\begin{array}{ll} \text{f) } 1\frac{17}{35} = \frac{1 \cdot 35 + 17}{35} = \frac{52}{35} & \text{g) } \frac{148}{45} = \frac{3 \cdot 45 + 13}{45} = 3\frac{13}{45} \\ \text{h) } 4\frac{12}{14} = \frac{4 \cdot 14 + 12}{14} = \frac{68}{14} = \frac{34}{7} & \text{i) } \frac{46}{14} = \frac{3 \cdot 14 + 4}{14} = 3\frac{4}{14} = 3\frac{2}{7} \\ \text{j) } \frac{122}{31} = \frac{3 \cdot 31 + 29}{31} = 3\frac{29}{31} \end{array}$$

Good Luck!