

Worksheet

02/23/2020

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Problem quickname: 7408

1)

Convert these improper fractions to mixed numbers.. Reduce the result to lowest terms.

$$\begin{array}{ll} \text{a) } \frac{38}{10} = \frac{3 \cdot 10 + 8}{10} = 3 \frac{8}{10} = 3 \frac{4}{5} & \text{b) } \frac{68}{15} = \frac{4 \cdot 15 + 8}{15} = 4 \frac{8}{15} \\ \text{c) } \frac{10}{4} = \frac{2 \cdot 4 + 2}{4} = 2 \frac{2}{4} = 2 \frac{1}{2} & \text{d) } \frac{74}{15} = \frac{4 \cdot 15 + 14}{15} = 4 \frac{14}{15} & \text{e) } \frac{15}{4} = \frac{3 \cdot 4 + 3}{4} = 3 \frac{3}{4} \\ \text{f) } \frac{19}{4} = \frac{4 \cdot 4 + 3}{4} = 4 \frac{3}{4} & \text{g) } \frac{23}{7} = \frac{3 \cdot 7 + 2}{7} = 3 \frac{2}{7} & \text{h) } \frac{29}{16} = \frac{1 \cdot 16 + 13}{16} = 1 \frac{13}{16} \\ \text{i) } \frac{47}{11} = \frac{4 \cdot 11 + 3}{11} = 4 \frac{3}{11} & \text{j) } \frac{38}{8} = \frac{4 \cdot 8 + 6}{8} = 4 \frac{6}{8} = 4 \frac{3}{4} \end{array}$$

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2)

Convert these mixed numbers to improper fractions. Reduce the result to lowest terms.

$$\begin{array}{lll} \text{a) } 2 \frac{7}{13} = \frac{2 \cdot 13 + 7}{13} = \frac{33}{13} & \text{b) } 4 \frac{2}{4} = \frac{4 \cdot 4 + 2}{4} = \frac{18}{4} = \frac{9}{2} & \text{c) } 1 \frac{1}{4} = \frac{1 \cdot 4 + 1}{4} = \frac{5}{4} \\ \text{d) } 3 \frac{6}{16} = \frac{3 \cdot 16 + 6}{16} = \frac{54}{16} = \frac{27}{8} & \text{e) } 2 \frac{2}{4} = \frac{2 \cdot 4 + 2}{4} = \frac{10}{4} = \frac{5}{2} & \text{f) } 4 \frac{3}{5} = \frac{4 \cdot 5 + 3}{5} = \frac{23}{5} \\ \text{g) } 3 \frac{10}{17} = \frac{3 \cdot 17 + 10}{17} = \frac{61}{17} & \text{h) } 3 \frac{5}{9} = \frac{3 \cdot 9 + 5}{9} = \frac{32}{9} & \text{i) } 4 \frac{1}{4} = \frac{4 \cdot 4 + 1}{4} = \frac{17}{4} \\ \text{j) } 5 \frac{5}{16} = \frac{5 \cdot 16 + 5}{16} = \frac{85}{16} \end{array}$$

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3)

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

$$\begin{array}{ll} \text{a) } \frac{114}{20} = \frac{5 \cdot 20 + 14}{20} = 5 \frac{14}{20} = 5 \frac{7}{10} & \text{b) } 2 \frac{14}{39} = \frac{2 \cdot 39 + 14}{39} = \frac{92}{39} \\ \text{c) } \frac{63}{26} = \frac{2 \cdot 26 + 11}{26} = 2 \frac{11}{26} & \text{d) } \frac{168}{29} = \frac{5 \cdot 29 + 23}{29} = 5 \frac{23}{29} \\ \text{e) } \frac{252}{82} = \frac{3 \cdot 82 + 6}{82} = 3 \frac{6}{82} = 3 \frac{3}{41} & \text{f) } \frac{386}{69} = \frac{5 \cdot 69 + 41}{69} = 5 \frac{41}{69} \\ \text{g) } \frac{218}{77} = \frac{2 \cdot 77 + 64}{77} = 2 \frac{64}{77} & \text{h) } 2 \frac{29}{47} = \frac{2 \cdot 47 + 29}{47} = \frac{123}{47} \\ \text{i) } \frac{162}{64} = \frac{2 \cdot 64 + 34}{64} = 2 \frac{34}{64} = 2 \frac{17}{32} & \text{j) } 3 \frac{18}{20} = \frac{3 \cdot 20 + 18}{20} = \frac{78}{20} = \frac{39}{10} \end{array}$$

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4)

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

$$\begin{array}{ll} \text{a) } \frac{278}{49} = \frac{5 \cdot 49 + 33}{49} = 5 \frac{33}{49} & \text{b) } 2 \frac{34}{40} = \frac{2 \cdot 40 + 34}{40} = \frac{114}{40} = \frac{57}{20} \\ \text{c) } 1 \frac{19}{27} = \frac{1 \cdot 27 + 19}{27} = \frac{46}{27} & \text{d) } \frac{478}{88} = \frac{5 \cdot 88 + 38}{88} = 5 \frac{38}{88} = 5 \frac{19}{44} \\ \text{e) } 2 \frac{9}{22} = \frac{2 \cdot 22 + 9}{22} = \frac{53}{22} & \text{f) } 3 \frac{30}{74} = \frac{3 \cdot 74 + 30}{74} = \frac{252}{74} = \frac{126}{37} \end{array}$$

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$$\begin{array}{lll} \text{g) } 5\frac{37}{53} = \frac{5 \cdot 53 + 37}{53} = \frac{302}{53} & \text{h) } \frac{121}{29} = \frac{4 \cdot 29 + 5}{29} = 4\frac{5}{29} & \text{i) } \frac{191}{63} = \frac{3 \cdot 63 + 2}{63} = 3\frac{2}{63} \\ \text{j) } 4\frac{52}{98} = \frac{4 \cdot 98 + 52}{98} = \frac{444}{98} = \frac{222}{49} & & \end{array}$$

Good Luck!