

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. Reduce the result to lowest terms.

Quick:
7408

$$\begin{array}{ll} \text{a) } \frac{121}{25} = \frac{4 \cdot 25 + 21}{25} = 4\frac{21}{25} & \text{b) } 4\frac{17}{22} = \frac{4 \cdot 22 + 17}{22} = \frac{105}{22} \\ \text{c) } \frac{76}{16} = \frac{4 \cdot 16 + 12}{16} = 4\frac{12}{16} = 4\frac{3}{4} & \text{d) } 4\frac{25}{44} = \frac{4 \cdot 44 + 25}{44} = \frac{201}{44} \\ \text{e) } 5\frac{5}{16} = \frac{5 \cdot 16 + 5}{16} = \frac{85}{16} & \text{f) } \frac{37}{14} = \frac{2 \cdot 14 + 9}{14} = 2\frac{9}{14} \end{array}$$

2)

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

Quick:
7408

$$\begin{array}{ll} \text{a) } \frac{50}{11} = \frac{4 \cdot 11 + 6}{11} = 4\frac{6}{11} & \text{b) } 3\frac{10}{33} = \frac{3 \cdot 33 + 10}{33} = \frac{109}{33} \\ \text{c) } \frac{45}{25} = \frac{1 \cdot 25 + 20}{25} = 1\frac{20}{25} = 1\frac{4}{5} & \text{d) } 2\frac{5}{20} = \frac{2 \cdot 20 + 5}{20} = \frac{45}{20} = \frac{9}{4} \\ \text{e) } \frac{30}{11} = \frac{2 \cdot 11 + 8}{11} = 2\frac{8}{11} & \text{f) } \frac{159}{28} = \frac{5 \cdot 28 + 19}{28} = 5\frac{19}{28} \\ \text{g) } 2\frac{26}{46} = \frac{2 \cdot 46 + 26}{46} = \frac{118}{46} = \frac{59}{23} & \text{h) } 3\frac{5}{20} = \frac{3 \cdot 20 + 5}{20} = \frac{65}{20} = \frac{13}{4} \\ \text{i) } 4\frac{10}{13} = \frac{4 \cdot 13 + 10}{13} = \frac{62}{13} & \text{j) } 1\frac{23}{30} = \frac{1 \cdot 30 + 23}{30} = \frac{53}{30} \end{array}$$

3)

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

Quick:
7408

$$\begin{array}{lll} \text{a) } \frac{27}{15} = \frac{1 \cdot 15 + 12}{15} = 1\frac{12}{15} = 1\frac{4}{5} & \text{b) } \frac{19}{8} = \frac{2 \cdot 8 + 3}{8} = 2\frac{3}{8} & \\ \text{c) } \frac{48}{9} = \frac{5 \cdot 9 + 3}{9} = 5\frac{3}{9} = 5\frac{1}{3} & \text{d) } \frac{35}{19} = \frac{1 \cdot 19 + 16}{19} = 1\frac{16}{19} & \text{e) } \frac{18}{11} = \frac{1 \cdot 11 + 7}{11} = 1\frac{7}{11} \\ \text{f) } \frac{12}{8} = \frac{1 \cdot 8 + 4}{8} = 1\frac{4}{8} = 1\frac{1}{2} & \text{g) } \frac{49}{14} = \frac{3 \cdot 14 + 7}{14} = 3\frac{7}{14} = 3\frac{1}{2} & \\ \text{h) } \frac{36}{11} = \frac{3 \cdot 11 + 3}{11} = 3\frac{3}{11} & \text{i) } \frac{21}{9} = \frac{2 \cdot 9 + 3}{9} = 2\frac{3}{9} = 2\frac{1}{3} & \text{j) } \frac{48}{13} = \frac{3 \cdot 13 + 9}{13} = 3\frac{9}{13} \end{array}$$

4)

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

Quick:
7408

$$\begin{array}{ll} \text{a) } 3\frac{12}{19} = \frac{3 \cdot 19 + 12}{19} = \frac{69}{19} & \text{b) } 1\frac{2}{4} = \frac{1 \cdot 4 + 2}{4} = \frac{6}{4} = \frac{3}{2} \\ \text{c) } 1\frac{15}{18} = \frac{1 \cdot 18 + 15}{18} = \frac{33}{18} = \frac{11}{6} & \text{d) } 4\frac{6}{9} = \frac{4 \cdot 9 + 6}{9} = \frac{42}{9} = \frac{14}{3} \\ \text{e) } 4\frac{8}{12} = \frac{4 \cdot 12 + 8}{12} = \frac{56}{12} = \frac{14}{3} & \text{f) } 2\frac{10}{16} = \frac{2 \cdot 16 + 10}{16} = \frac{42}{16} = \frac{21}{8} \end{array}$$

$$\begin{array}{ll} \text{g) } 2\frac{4}{10} = \frac{2 \cdot 10 + 4}{10} = \frac{24}{10} = \frac{12}{5} & \text{h) } 5\frac{3}{12} = \frac{5 \cdot 12 + 3}{12} = \frac{63}{12} = \frac{21}{4} \\ \text{i) } 3\frac{11}{19} = \frac{3 \cdot 19 + 11}{19} = \frac{68}{19} & \text{j) } 2\frac{6}{18} = \frac{2 \cdot 18 + 6}{18} = \frac{42}{18} = \frac{7}{3} \end{array}$$

Good Luck!