Working with Mixed Numbers

Convert into improper fractions:

(a) $2\frac{1}{2}$ (b) $3\frac{4}{7}$ (c) $5\frac{1}{6}$

(d) $4\frac{2}{13}$ (e) $7\frac{7}{10}$ (f) $2\frac{5}{9}$

Convert into mixed numbers:

(a) $\frac{8}{3}$ (b) $\frac{25}{4}$ (c) $\frac{31}{6}$

(d) $\frac{18}{7}$ (e) $\frac{92}{9}$ (f) $\frac{59}{11}$

Calculate, giving your answers in their simplest form:

(a) $1\frac{2}{3}\times 2\frac{1}{5}$ (b) $2\frac{3}{5}\times 1\frac{5}{6}$

(c) $3\frac{1}{2}\times\frac{2}{5}$ (d) $2\frac{1}{4}\times 3\frac{3}{10}$

(e) $\frac{1}{8}\div 1\frac{1}{2}$ (f) $2\frac{1}{4}\div\frac{1}{2}$

(g) $3\frac{2}{5}\div 1\frac{3}{4}$ (h) $2\frac{5}{6}\div 1\frac{2}{3}$

Calculate, giving your answers in their simplest form:

(a) $1\frac{3}{5}+\frac{2}{5}$ (b) $2\frac{6}{7}+2\frac{1}{7}$

(c) $5\frac{2}{3}-2\frac{1}{6}$ (d) $4\frac{1}{4}-\frac{5}{6}$

(e) $2\frac{3}{7}+3\frac{1}{4}$ (f) $5\frac{2}{3}-1\frac{4}{7}$

(g) $2\frac{10}{11}+\frac{1}{2}$ (h) $6\frac{2}{5}-2\frac{5}{6}$

(i) $5\frac{1}{2}-4\frac{1}{3}$ (j) $4\frac{2}{3}+2\frac{1}{5}$

A machine takes $2\frac{3}{5}$ minutes to make a microchip. How long will it take to produce 20 microchips?

Calculate the area and perimeter of a rectangle of length $4\frac{2}{5}$ cm and width $2\frac{1}{4}$ cm.

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Calculate, giving your answers in their simplest form:

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