**Solving Equations with Fractions**

Solve

(a) $\frac{x+2}{5}=4$ (b) $\frac{x-1}{6}=2$

(c) $\frac{6x+3}{9}=1$ (d) $\frac{5x-6}{4}=1$

(e) $\frac{2x+10}{5}=4$ (f) $\frac{2x-1}{8}=3$

(g) $1=\frac{2x-1}{5}$ (h) $9=\frac{5x-3}{3}$

Solve

(a) $\frac{2x+3}{5}=x$ (b) $\frac{4x-7}{2}=x$

(c) $\frac{x+3}{5}=\frac{x-1}{3}$ (d) $\frac{2x+1}{4}=\frac{3x-1}{2}$

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

Solve

(a) $\frac{x}{5}-2=3$ (b) $\frac{x}{4}+7=5$

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

(e) $\frac{2x+8}{5}-7=1$ (f) $1=\frac{3x}{4}+7$

Ben is $x$ cm tall. Talia is 8 cm taller than Ben. Belle is 2cm shorter than Ben. Their mean height is 160 cm. Find Ben’s height.

A triangle has base $(2x+9)$ cm and height 4 cm. Its area is 42 cm2. Find the value of $x$ and hence the base of the triangle.

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