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 cm^2. Find the value of x and hence the base of the triangle.

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