Solving One and Two Step Equations

Solve these equations.
(a) $x + 6 = 11$ (b) $x + 11 = 6$
(c) $8 + x = 15$ (d) $x + 3.2 = 9.8$
(e) $x - 3 = 10$ (f) $x - 10 = 3$
(g) $3 - x = 10$ (h) $2.3 = 4.5 - x$

(a) $x = 5$ (b) $x = -5$
(c) $x = 7$ (d) $x = 6.6$
(e) $x = 13$ (f) $x = 13$
(g) $x = -7$ (h) $x = 2.2$

Solve these equations.
(a) $3x = 15$ (b) $8x = 64$
(c) $2x = 15$ (d) $-2x = 6$
(e) $\frac{x}{2} = 5$ (f) $\frac{x}{4} = 5$
(g) $10 = \frac{x}{3}$ (h) $\frac{x}{3} = -7.5$

(a) $x = 5$ (b) $x = 8$
(c) $x = 7.5$ (d) $x = -3$
(e) $x = 10$ (f) $x = 20$
(g) $x = 30$ (h) $x = -22.5$

Solve these equations.
(a) $2x + 7 = 15$ (b) $2x - 7 = 15$
(c) $7 + 2x = 13$ (d) $13 + 2x = 7$
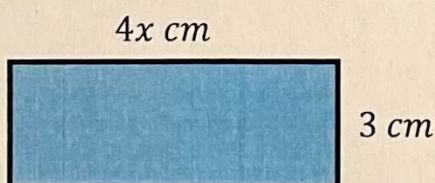(e) $2x + 13 = 7$ (f) $3x + 1 = 10$
(g) $3x - 1 = 10$ (h) $17 = 3x - 1$

(a) $x = 4$ (b) $x = 11$
(c) $x = 3$ (d) $x = -3$
(e) $x = -3$ (f) $x = 3$
(g) $x = \frac{11}{3}$ (h) $x = 6$

Solve these equations.
(a) $6 - 2x = 14$ (b) $20 = 2 - 6x$
(c) $8 - 3x = 2$ (d) $7 - x = 10$
(e) $13 - 5x = 3$ (f) $6 = 5 - 2x$
(g) $9.5 = 2 - 3x$ (h) $6.3 - x = 8.9$

(a) $x = -4$ (b) $x = -3$
(c) $x = 2$ (d) $x = -3$
(e) $x = 2$ (f) $x = -\frac{1}{2}$
(g) $x = -2.5$ (h) $x = -2.6$

(a) The perimeter of this rectangle is 42 cm. Find its area.

$4x$ cm

3 cm

(b) The area of a triangle is 75 cm^2. If its base is $3x$ cm and its height is 20 cm, find the value of x.

(a) $8x + 6 = 42$
$\quad\quad 8x = 36$
$\quad\quad\quad x = 4.5$
$A = 18 \times 3 = 54\,cm^2$

(b) $\frac{3x \times 20}{2} = 75$
$\quad 30x = 75$
$\quad\quad x = 2.5$