1. $\dfrac{47 - x}{4} = 11$

$47 - x = 411$

$47 - x = 44$

$47 - 44 = x$

$3 = x$

2. $32 + \dfrac{x}{3} = 35$

$\dfrac{x}{3} = 35 - 32$

$\dfrac{x}{3} = 3$

$x = 33$

$x = 9$

3. $36 + \dfrac{x}{5} = 37$

$\dfrac{x}{5} = 37 - 36$

$\dfrac{x}{5} = 1$

$x = 51$

$x = 5$

4. $\dfrac{x + 43}{5} = 10$

$x + 43 = 510$

$x + 43 = 50$

$x = 50 - 43$

$x = 7$

5. $16 - \dfrac{x}{6} = 15$

$16 - 15 = \dfrac{x}{6}$

$1 = \dfrac{x}{6}$

$61 = x$

$6 = x$

6. $3x + 29 = 47$

$3x = 47 - 29$

$3x = 18$

$x = \dfrac{18}{3}$

$x = 6$

7.
$$\frac{16}{x-5} = 8$$
$$\frac{16}{8} = x - 5$$
$$2 = x - 5$$
$$2 + 5 = x$$
$$7 = x$$

8.
$$25 - \frac{x}{2} = 23$$
$$25 - 23 = \frac{x}{2}$$
$$2 = \frac{x}{2}$$
$$22 = x$$
$$4 = x$$

9.
$$\frac{x-3}{2} = 2$$
$$x - 3 = 22$$
$$x - 3 = 4$$
$$x = 4 + 3$$
$$x = 7$$

10.
$$47 - 5x = 37$$
$$47 - 37 = 5x$$
$$10 = 5x$$
$$\frac{10}{5} = x$$
$$2 = x$$

11.
$$4(6 - x) = 12$$
$$6 - x = \frac{12}{4}$$
$$6 - x = 3$$
$$6 - 3 = x$$
$$3 = x$$

12.
$$2x - 5 = 11$$
$$2x = 11 + 5$$
$$2x = 16$$
$$x = \frac{16}{2}$$
$$x = 8$$