LINEAR EQUATIONS

TWO-STEP QUESTIONS

NO CALCULATOR

A1 Solve $x^2+9=25$	**A2** Solve $(x+9)^2=25$	**A3** Solve $\left(\frac{x}{4}\right)^2=16$	**A4** Solve $\frac{x^2}{4}=16$
B1 Solve $4x^2=144$	**B2** Solve $(3x)^2=36$	**B3** Solve $(x-16)^2=121$	**B4** Solve $x^2-16=84$
C1 Solve $\sqrt{x}-4=5$	**C2** Solve $\sqrt{x-4}=5$	**C3** Solve $5\sqrt{x}=10$	**C4** Solve $\sqrt{5x}=10$
D1 Solve $\frac{\sqrt{x}}{2}=3$	**D2** Solve $\sqrt{\frac{x}{2}}=3$	**D3** Solve $\sqrt{x+5}=-1$	**D4** Solve $\sqrt{x}+5=-1$

LINEAR EQUATIONS

TWO-STEP QUESTIONS

NO CALCULATOR

A1 Solve

$x^2 + 9 = 25$

$x^2 = 16$

$x = 4$

A2 Solve

$(x+9)^2 = 25$

$x + 9 = 5$

$x = -4$

A3 Solve

$\left(\frac{x}{4}\right)^2 = 16$

$\frac{x}{4} = 4$

$x = 16$

A4 Solve

$\frac{x^2}{4} = 16$

$x^2 = 64$

$x = 8$

B1 Solve

$4x^2 = 144$

$x^2 = 36$

$x = 6$

B2 Solve

$(3x)^2 = 36$

$3x = 6$

$x = 2$

B3 Solve

$(x-16)^2 = 121$

$x - 16 = 11$

$x = 27$

B4 Solve

$x^2 - 16 = 84$

$x^2 = 100$

$x = 10$

C1 Solve

$\sqrt{x} - 4 = 5$

$\sqrt{x} = 9$

$x = 81$

C2 Solve

$\sqrt{x-4} = 5$

$x - 4 = 25$

$x = 29$

C3 Solve

$5\sqrt{x} = 10$

$\sqrt{x} = 2$

$x = 4$

C4 Solve

$\sqrt{5x} = 10$

$5x = 100$

$x = 20$

D1 Solve

$\frac{\sqrt{x}}{2} = 3$

$\sqrt{x} = 6$

$x = 36$

D2 Solve

$\sqrt{\frac{x}{2}} = 3$

$\frac{x}{2} = 9$

$x = 18$

D3 Solve

$\sqrt{x+5} = -1$

$x + 5 = 1$

$x = -4$

D4 Solve

$\sqrt{x} + 5 = -1$

$\sqrt{x} = -6$

$x = 36$