Name: _____
Section: _____

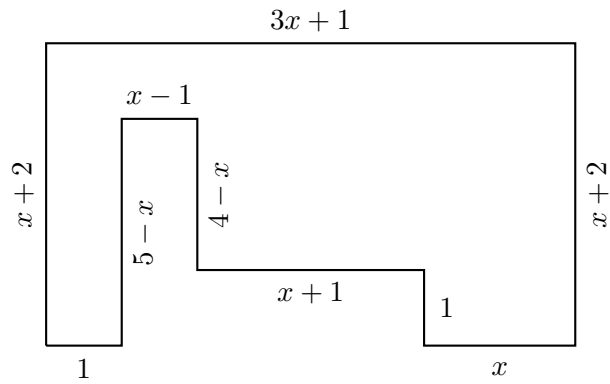1. If the perimeter of the shape in Figure 1 is $28\,\mathrm{cm}$ find x.

Figure 1: The shape

2. John wants to invest $5000 in two different plans. Plan A has an annual interest rate of 4% and plan B has an interest rate of 3%. How much should he invest on each plan if he wants at the end of the year to gain interest of $180?

3. Solve the following equation:

$$\frac{2x-1}{3} + \frac{x+5}{2} + 4 = \frac{2x+2}{6} + 2(x+5) - 10$$