11 Gaya spends \$48 to buy books that cost \$$x$ each.

(a) Write down an expression, in terms of x, for the number of books Gaya buys.

.... [1]

(b) Myra spends \$60 to buy books that cost \$$(x+2)$ each.
Gaya buys 4 more books than Myra.

Show that $x^2 + 5x - 24 = 0$.

[4]

(c) Solve by factorisation.
$$x^2 + 5x - 24 = 0$$

$x =$ .... or $x =$ .... [3]

(d) Find the number of books Myra buys.

.... [1]

[Turn over