Mid-Unit 6 Review
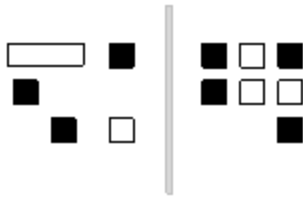
1. Ten less than 7 times a number is 4.
   a) Write an equation you can solve to find the number.

   b) Solve the equation using a model to find the number.

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2. Tiles are arranged on each side of the line to represent an equation. The rectangle represents x, a white square represents $+1$, and a black square represents -1. Solve the equation modelled by this picture.

3. Solve the following equations using any method - verify your solution.
   a) $5y = 15$ b) $6 = 4m - 6$

   c) $5x + 8 = 13$ d) $3z + 1 = 4$

   e) $7 + x = 5$ f) $x - 5 = -13$

g) $x + x + 8 = 14$ h) $x + 5 + 7 = 5$

4. Sketch a 2-pan balance to represent the following equations. Then solve the equations.

a) $x + 3 = 8$ b) $3x + 7 = 16.$

c) $x + x + 7 = 13$ d) $2n + 8 = 30$

11. Write an expression for the perimeter, in centimetres, for the following shape. Then find
    the perimeter when x = 3 cm.