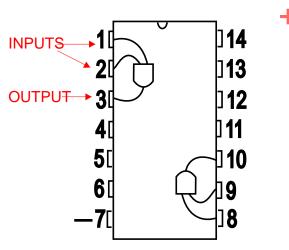


## THE 4081B LOGIC CIRCUIT

V.Ryan © 2009 World Association of Technology Teachers

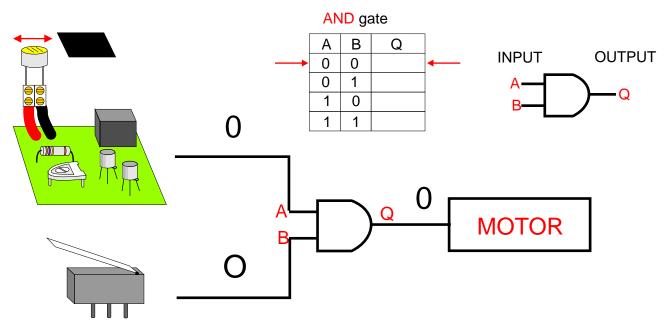
1. The 4081B integrated circuit is an AND GATE. How many pins does it have ?



2. The logic IC drawn opposite is a 4018B. It has four AND gates, two are shown. Add the remaining two AND gates, with their inputs and outputs.

3. A dark sensor and a micro switch have been connected to one of the AND gates of a 4018B logic circuit (see below).

Identify the Dark sensor and micro-switch with arrows and labels. Complete the logic table.



4. A dog owner has built an automatic animal feeder to work at night and when his dog presses a switch (pressure pad). This type of device would automatically feed the dog when the owner is asleep. Draw a circuit diagram that clearly shows how a 4081B could be used to automatically drive a motor, releasing food into the dish.

