## Binary coding practice

Part A Arrange five of your dot cards from 16-dots on the left down to 1-dot on the right, as we did at the front of the class. Use them to help you with these questions:

1. Draw in the dots, then figure out what the number is in our usual system.

2. Now use your dot cards figure out the binary code for the given number. Draw in the dots.

3. What do these binary numbers mean in our usual system?
$11=$ $\qquad$ $110=$ $\qquad$
$1100=$ $\qquad$
$10100=$ $\qquad$
$101=$ $\qquad$
$1010=$ $\qquad$

What happens when we add a 0 to the right end of a binary number?

Part B For some of these you'll need the sixth dot card (the one with 32 dots).

1. What do these numbers look like in binary code?
$\qquad$ $36=$ $\qquad$
$\qquad$
$21=$ $\qquad$ $37=$ $\qquad$
$\qquad$
