

Assessment 1

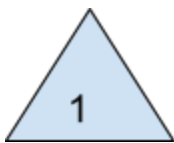
Q1. For each set of Logo Turtle commands below, state whether it would give you a square or not. If not, change the command so that it would create a square (as few as needed).

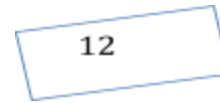
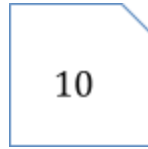
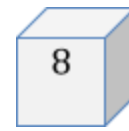
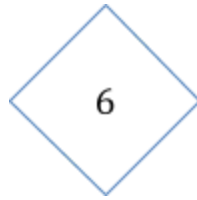
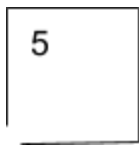
Command	Is it a square?	New Command
forward 100 → left 90 → forward 200 → left 90 → forward 100 → left 90 → forward 200		
forward 90 → left 90 → forward 90 → left 90 → forward 90 → left 90 → forward 90		
forward 100 → right 100 → forward 100 → right 100 → forward 100 → right 100 → forward 100		
forward 5 → right 90 → forward 5 → right 90 → forward 5 → right 90 → forward 5		

Q2. Suppose we define a square as a 4-sided polygon in which

- all sides are equal
- each angle is a right angle

Classify each of the following shapes, as squares or not squares. If you are not sure about some figures, put them in the column 'I'm not sure'.





SQUARE	NOT A SQUARE	I'M NOT SURE

Q3. For each shape (above) that you have put in the 'Not a Square' column, give reasons why you think it is not a square. (State which statement in the definition is contradicted).