

# M8 = 22 days to go!

4 (a) (i) Write the binary number 10101 as a decimal number.

Answer \_\_\_\_\_ [1]

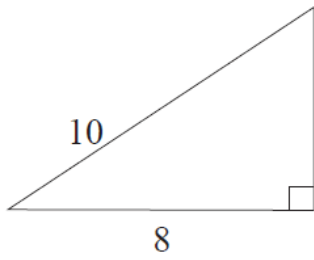
(ii) Write the decimal number 26 as a binary number.

Answer \_\_\_\_\_ [1]

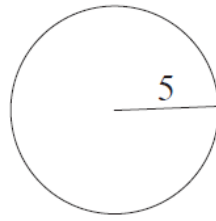
(b) Find the value of  $3^0 + 4^0$

Answer \_\_\_\_\_ [1]

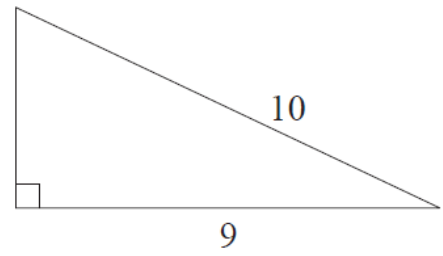
10 For each shape, decide whether the area is a rational or an irrational number.  
Give a reason for each answer.



Shape A



Shape B



Shape C

Area of Shape A is \_\_\_\_\_ because \_\_\_\_\_  
\_\_\_\_\_ [1]

Area of Shape B is \_\_\_\_\_ because \_\_\_\_\_  
\_\_\_\_\_ [1]

Area of Shape C is \_\_\_\_\_ because \_\_\_\_\_  
\_\_\_\_\_ [1]