## m8 =22 days to go!

4	(a)	(i)	Write the binary	number 10101	as a decimal	number.
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Answer \_\_\_ 2 | [1]

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

32 16 8

11010

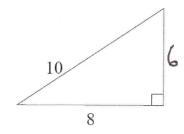
Answer \_\_\_\_\_[1]

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

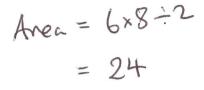
1+1

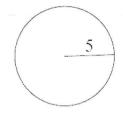
(anything) = 1

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

$$A = \pi \times 5^{2}$$

$$A = 25\pi$$

Shape C

Area of Shape A is Rational because  $\lceil 1 \rceil$ irrational is because Area of Shape B is 25 xm must also be irrational Area of Shape C is  $\frac{9}{2} \times \sqrt{19}$ because \_\_ Vig is irrational [1]