

# MG = 26 days to go!

3 Tickets numbered from 1 to 81 are placed in a hat.  
One winning ticket is taken at random.

(a) What is the probability that the winning ticket is the number 70?

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

(b) What is the probability that the winning ticket is a number bigger than 70?

Answer \_\_\_\_\_ [2]

(c) Explain why the probability of the winning ticket having an even number is not  $\frac{1}{2}$

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

9

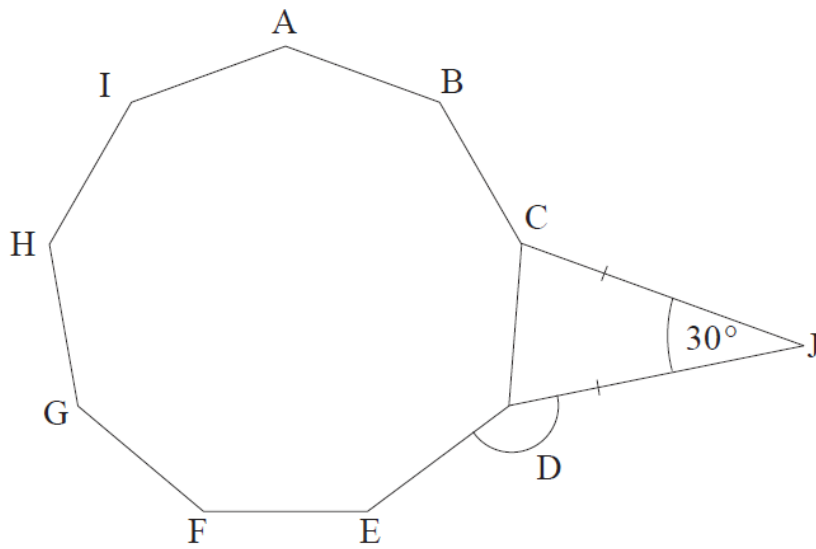


diagram not  
drawn accurately

The diagram shows a regular nonagon ABCDEFGHI with an isosceles triangle DCJ attached.

The angle  $DJC = 30^\circ$

Calculate the size of the angle EDJ.

**Show your working clearly.**