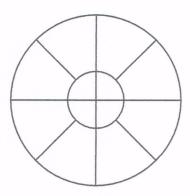
1

For Examiner's Use



For the diagram above write down

(a) the order of rotational symmetry,

Answer(a) [1]

(b) the number of lines of symmetry.

Answer(b) [1]

2 (a) Use your calculator to work out

$$\frac{1 - (\tan 40^{\circ})^{2}}{2(\tan 40^{\circ})}.$$

$$= 0.176326980...$$

$$\approx 0.176$$

Answer(a) [1]

(b) Write your answer to part (a) in standard form.

$$0.176 \approx 1.76 \times 10^{-1}$$
Answer(b)

Answer(b)

[1]

3 Xsara throws a ball three times at a target.

Each time she throws the ball, the probability that she hits the target is 0.2.

Calculate the probability that she does **not** hit the target in any of the three throws.

Answer

0.512