

DO NOT WRITE IN THIS AREA

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10

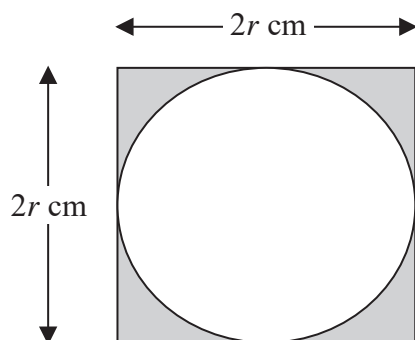


Diagram **NOT**  
accurately drawn

The diagram shows a square of side length  $2r$  cm and a circle of radius  $r$  cm.  
Each side of the square is a tangent to the circle.

Express the area of the shaded region as a percentage of the area of the square.  
Give your answer to 3 significant figures.

.....%

(Total for Question 10 is 3 marks)

