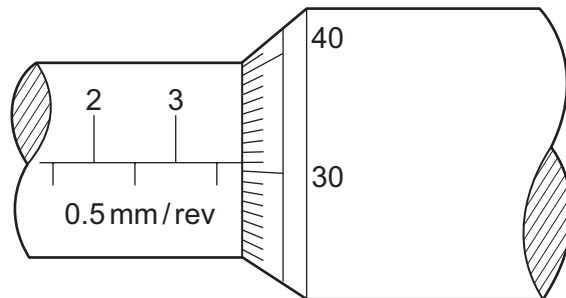


- 5 The diameter of a cylindrical metal rod is measured using a micrometer screw gauge.

The diagram below shows an enlargement of the scale on the micrometer screw gauge when taking the measurement.



What is the cross-sectional area of the rod?

- A**  $3.81 \text{ mm}^2$       **B**  $11.4 \text{ mm}^2$       **C**  $22.8 \text{ mm}^2$       **D**  $45.6 \text{ mm}^2$