

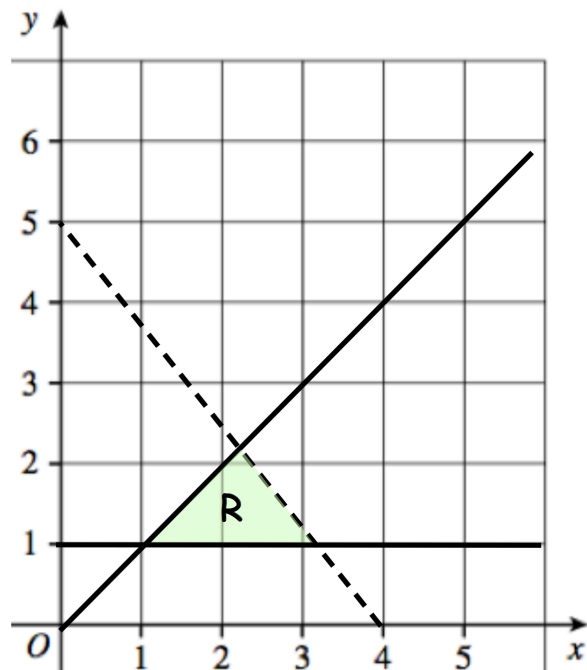


A circular plaque of diameter 10cm is cut from a square piece of metal with side length 10cm.

What percentage of the metal is wasted?

Write as a single power of 2

$$\frac{(2^2)^3 \times 4}{16}$$



The region labelled R satisfies three inequalities.

State the three inequalities

The areas of two mathematically similar shapes are in the ratio 49 : 81
 The length of the smaller shape is 24.5cm
 Work out the length of the larger shape.