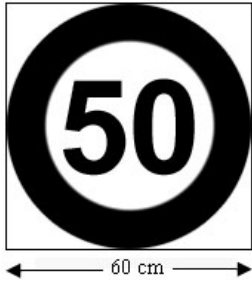


# Measuring road signs

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This task is about working out the circumference, circular and square area of a road sign.

The figure below shows a circular 50 km/h sign, punched out of a square sheet of metal of sides 60 cm. (Use  $\pi = 3.14$  approx.)



a) What is the circumference of the outer circle? \_\_\_\_\_ cm

b) What is the area of the circular sign? \_\_\_\_\_  $\text{cm}^2$

What is the **total** area of sheet metal wasted in the four corners, after the sign is punched out?

c) \_\_\_\_\_  $\text{cm}^2$

The shaded ring has an inner diameter of 40 cm, and an outer diameter of 60 cm.

d) What is its area? \_\_\_\_\_  $\text{cm}^2$