Bratislava Bronze

Think

- Who is he?
- What's his job?
- Why is he smiling?
- Where does he live?
- Where does he go?
- Where does he come from?
- What is he wearing?
- Does he come from the past or present?

Respond

Tell the story of what happened down there.

Reimagine

Draw what is below the pavement.

Discuss

Is this art? What is art? Who decides What is art?

Solve

The area of the square covering the manhole cover is 2500cm². The distance between the edge of the circle and the edge of the square when they are closest together is 2cm. Can you use this information to work out the radius of the circular manhole cover? (23cm)

Discover

Fact: During the Great Stink of 1858, London was brought to a virtual standstill by the smell of human waste piped into the River Thames.

Question: Who was Joseph Bazalgette and how did he solve the problem?
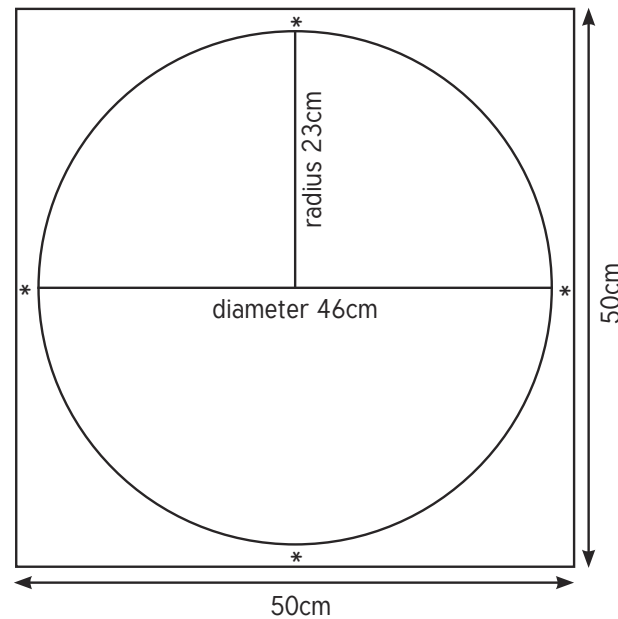
Bratislava Bronze **Answers**

The area of the square covering the manhole cover is 2500cm². The distance between the edge of the circle and the edge of the square is 2cm. Can you use this information to work out the radius of the circular manhole cover?
The area of the square is 2500cm² so the length of each side of the square must be 50cm – 50cm x 50 cm = 2500 cm²
There is a distance of 2 cm between the edge of the circle and the edge of the square. We need to take away the distance of the gap on the left and the right side from the length of the square – 50cm – 2cm – 2cm = 46cm
This will give us the diameter of the circle – 46cm
To work out the radius, we need to divide the diameter by 2 – 46cm ÷ 2 = 23cm

radius 23cm

diameter 46cm

50cm

50cm

∗ marked areas have a 2cm gap