203: Electrical installations technology  
**Worksheet 17: Equipotential bonding**

**Answer guide**

Try the following problems using your IET On‑site Guide for reference.

1. **The line conductor tails feeding an installation connected to a TN‑S system have a cross‑sectional area of 25mm2.**

**What is the minimum size earthing conductor that must be used (assuming it is not buried)?**

**16mm2**

**What is the minimum size of the main protective bonding conductors that must be used?**

**10mm2**

1. **The neutral conductor tails feeding an installation connected to a TN‑C‑S system have a cross‑sectional area of 4mm2.**

**What is the minimum size earthing conductor that must be used (assuming it is not buried)?**

**6mm2**

**What is the minimum size of the main protective bonding conductors that must be used?**

**10mm2**

1. **Supplementary equipotential bonding is to be installed in a room containing a bath. This will bond the cpc terminal of a lighting point to the extraneous‑conductive‑parts (water pipes, radiator, etc) within the room. The cpc feeding the lighting point has a cross‑sectional area of 1.5mm2. Determine the size of supplementary bonding conductor if it has mechanical protections.**

**1.0mm2**