**Work out total diversity for a typical domestic installation**

1. Electric cooker: 2 x 2.75 kw & 2 x 1.5 kw hob plates, 1 x 2.5 kW top oven & a 1 x 3.0 kw main oven and fitted with a 13A socket outlet
2. 32 amp kitchen ring main
3. 32 amp upstairs ring main
4. Downstairs lighting circuit consisting of 11 lighting points
5. Smoke alarm circuit consisting of 2 detectors
6. 7.5kw Electric shower
7. 32 amp downstairs ring main
8. Upstairs lighting circuit consisting of 6 lighting points

**Work out total diversity for a typical Retail installation**

1. 32 amp Warehouse ring main
2. 32 amp shop front ring main
3. lighting circuit consisting of 5 lighting points and 2 x 500 watt halogen security lights in the warehouse
4. 3 x 3kw Electric instant hand wash
5. 20 amp radial circuit for kitchen area
6. lighting circuit consisting of 23 lighting points