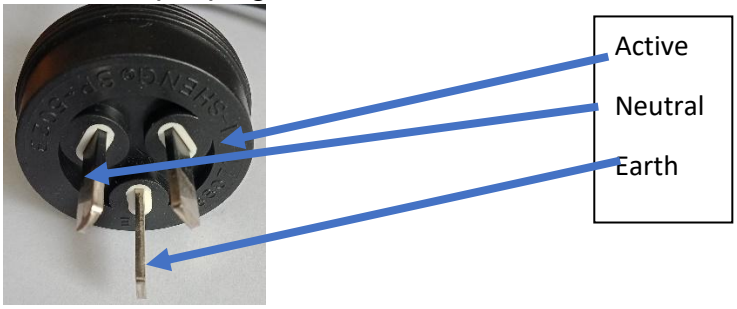
Standard

Unit 22 Answers

1. What is the frequency of mains power in Australia?
   50 Hz

2. Identify the pins on the 3-pin plug.



3. Complete the following table. What voltages would you expect when measuring between the following points?

Active and earth	**230 V**
Active and neutral	**230V**
Neutral and earth.	**0**

4. 230 V lead wiring colours changed. What are the current wiring colours?

	Old colours	New colours
Active	Red	**Brown**
Neutral	Black	**Blue**
Earth	Green	**Green and yellow**

5. What is the purpose of having an earth pin on the plug?
   Ground the chassis of metal equipment to prevent shock to the user.

6. How does a fuse work?
   The extra current through the fuse heats the fuse to melting point and breaks the current path.

7. What is the equipment that is replacing fuses on mains power and how do they work?

RCB or residual circuit breakers

8. On which lead would the isolation switch be included and why?

   Active so when the power is turned off, the equipment is completely isolated.

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