

12 Magnetic fields from currents – Part 2

—Answers

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Work through these after you have tried the questions yourself.

- 2.1** circular field lines that loop around the wire.
- 2.2** a larger current, and being closer to the wire.
- 2.3** a strong, uniform magnetic field (like a bar magnet).
- 2.4** it can be switched on and off (and its strength changed) by controlling the current.
- 2.5** any of: scrapyards, crane, doorbell, electric motor, relay, MRI machine.