Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

Each answer shows the steps, then the **result**.

2.1

an invention is a new idea, product or process; an innovation is an invention that has been brought to market and is used

2.2

(a) patent

(b) trademark

2.3

$12\,000 \div (60 - 20) =$ **300** lamps

3.1

(a) any two, outlined: affordable for families with low incomes; simple, so it can be repaired with local skills and tools; needs no fuel or electricity; made from tough local or easy-to-get materials, e.g. polyethylene

(b) advantage: protects the invention for about 20 years, so the team can earn money / license it to pay for development; disadvantage: applying is costly and makes the design public; other makers cannot freely make cheap copies, so fewer people may get it

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