









5. One large wind turbine can produce enough electricity every year to power 750 homes for 12 months. How many houses could 21 large wind turbines produce electricity for?

Earth Hour Maths Challenge Cards

- 6. The Snowy Mountains Hydro-electric scheme began construction in 1949 and was finished in 1974.
 - a) How many years did construction of the system take?

The project was completed to budget and cost \$820 million.

b) How much would it have cost if the total cost of the project was 1.5 times greater than the budget?

Earth Hour Maths Challenge Cards

7. Using specific light bulbs can help to reduce our electricity consumption in our house.

Light Bulb Type	Electricity Consumption (watts)
incandescent	100
halogen	70
CFL	40
LED	25

- a) What would be the electricity consumption of 9 halogen light bulbs?
- b) If 9 CFL light bulbs were used instead, what would be the reduction in electricity consumption?

Earth Hour Maths Challenge Cards

Answers

- 1. 1.1°C
- 2. a) 29%
 - b) 1.97%
- 3. 7.4%
- 4. a) 4380 litres per year
 - b) 12 litres per day

- 5. 15 750
- 6. a) 25 years
 - b) \$1230 million
- 7. a) 630 watts
 - b) 270 watts