2018 28c Every day, a 1200-watt microwave oven is used for 45 minutes at $40 \%$ power.
Electricity is charged at $\$ 0.25$ per kWh .
What is the cost of running this microwave oven for 180 days?

$$
\begin{aligned}
\text { Energy at } 40 \% & =1200 \div 1000 \times 0.4 \\
& =0.48
\end{aligned}
$$

Also, 45 minutes $=0.75$ hour.

$$
\begin{aligned}
\text { Cost } & =0.48 \times 0.75 \times 0.25 \times 180 \\
& =16.2
\end{aligned}
$$

$\therefore$ the cost is $\$ 16.20$.

* These solutions have been provided by projectmaths and are not supplied or endorsed by NESA.


## NESA: Marking Feedback

## Students should:

- clearly link their steps of working together


## In better responses, students:

- used percentages correctly


## Area for students to improve include:

- converting watts to kilowatts

