

#### **HSC Worked Solutions**

**201828c**Every day, a 1200-watt microwave oven is used for 45 minutes at 40% power.<br/>Electricity is charged at \$0.25 per kWh.<br/>What is the cost of running this microwave oven for 180 days?**3**Energy at 40% =  $1200 \div 1000 \times 0.4$ <br/>= 0.48 $\therefore 0.48$  kWhAlso, 45 minutes = 0.75 hour.<br/>Cost =  $0.48 \times 0.75 \times 0.25 \times 180$ <br/>= 16.2<br/> $\therefore$  the cost is \$16.20.State Mean:<br/>**1.8/3** 

\* 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