

Plan our class trip – Glendalough or Newgrange?

MODULE 9 · MATHEMATICAL MODELING AND END-OF-YEAR REVIEW REVIEW

HOW TO ANSWER TODAY

- Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.

$$250 \text{ cm} \rightarrow \text{m}: \div 100 = 2.5 \text{ m} \quad 3.5 \text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500 \text{ g}$$

- Elapsed time.** Count up to the next hour, then in whole hours, then the remaining minutes. Add the parts.

$$14:30 \rightarrow 16:45: 30 \text{ min to } 15:00, 1 \text{ h to } 16:00, 45 \text{ min to } 16:45 \rightarrow 2 \text{ h } 15 \text{ min}$$

★ STRETCH PROBLEMS

1



5th class run a Christmas hamper raffle over two weeks. In the first week they take in **€716.77** and in the second week they take in **€480.12**. How much money have they raised in total?

2



The Murphy family does two big shops at SuperValu in October. The first shop comes to **€612.31** and the second shop comes to **€606.28**. How much do they spend on groceries in total that month?

3

Saoirse cycles from granny's farmhouse to the far field to check on the calves. The lane runs **3290 m** from the gate to the field. How many kilometres is that?

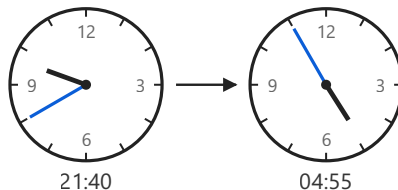
Convert 3290 m to km.

4



The Parents' Association raises money over the year for new playground equipment. The autumn fundraiser brings in **€896.43** and the spring fundraiser brings in **€817.35**. How much have they raised in total?

5



Oisín's family take the overnight ferry from Dublin to Holyhead. The ferry leaves the port at **21:40** and docks at **04:55** the next morning. How long does the crossing take?