| 1) | $\frac{1}{4}$ km = <u>250</u> metres | | | |
|------------------------------|--------------------------------------|--|--|--|
| | 12cm = <u>120</u> mm | | | |
| | 0.75 metres = <u>75</u> cm | | | |
| | 76 000mm = <u>76</u> metres | | | |
| 2) | 8500 metres = 8km +0.5 km | | | |
| 350cm = 2 metres +0.4 metres | | | | |
| 180mm = 10cm +8 cm | | | | |
| | 25 250mm = 25 metres + 0.25 metres | | | |

Grace is incorrect. Accept any correct explanation that shows that 0.86m is the same as 860mm.
 86mm × 10 = 860mm

Therefore, there must be 10 cars lined up.

2) Accept any correct explanation that explains how Owen will need 2550cm of wood (25.5m) so he will need to round this up to 26 metres.

Route: A, B, C, D, E, F, A = 246km Route: A, B, D, C, E, F, A = 365km Route: A, B, D, E, C, F, A = 363km 1) 246 000m

- 2) 365km
- 3) 200 000cm









Passengers can travel between six holiday islands using this aeroplane service.

The small aeroplane travels from island A back to island A. It visits each of the other islands only once and must travel to island B first.

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There are three possible routes the aeroplane can fly.

Find the distances of the possible aeroplane routes.

| | A B C C C C C C C C C C C C C |
|----|---|
| 1) | What is the distance of the shortest route in metres? |
| 2) | What is the distance of the longest route in kilometres? |
| 3) | In centimetres, what is the difference between the middle and longest routes? |
| | |



Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



CM

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.



Aim

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• Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).

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Metric Units

CM

Deeper

The shop sells wood in metre lengths.



To build a tree house, I need 2870cm of wood. I need to ask the shopkeeper for 287 metres of wood.

27 2

Is Sharon correct? Explain your answer.

Sharon is incorrect as she has only divided by 10 when she should have divided by 100.

2870cm ÷ 100 = 28.7m

As the shop only sells wood in metre lengths, she would need to ask for 29m of wood.

Metric Units

0 11

CM

Deepest

Passengers can travel between five holiday islands using this free aeroplane service.

The small aeroplane travels from island A back to island A. It visits each of the other islands only once and must visit island B first. There are two possible routes that the aeroplane can fly.

Find the distance of the two possible aeroplane routes in kilometres.

Route: A, B, C, D, E, A = 254km Route: A, B, C, E, D, A = 358km

What is the difference, in centimetres, between the total distance of the two possible journeys?

358km - 254km = 104km = 10 400 000cm



27 2

11

Metric Units

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CM

Dive in by completing your own activity!

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Passengers can travel between six holiday islands using this aeroplane service.



The small aeroplane travels from island A back to island A. It visits each of the other islands only once and must travel to island B first.

There are three possible routes the aeroplane can fly.



Find the distances of the possible aeroplane routes.

- 1) What is the distance of the shortest route in metres?
- 2) What is the distance of the longest route in kilometres?
- **3)** In centimetres, what is the difference between the middle and longest routes?

Passengers can travel between six holiday islands using this aeroplane service.



The small aeroplane travels from island A back to island A. It visits each of the other islands only once and must travel to island B first.

There are three possible routes the aeroplane can fly.



Find the distances of the possible aeroplane routes.

- 1) What is the distance of the shortest route in metres?
- 2) What is the distance of the longest route in kilometres?
- **3)** In centimetres, what is the difference between the middle and longest routes?