1) Convert the mass of each suitcase.

- **12.1 kg**
  - **12 100 g**
- **18.07 kg**
  - **18 070 g**
- **23 3/4 kg**
  - **23 375 g**

2) Convert the distance of each journey.

- **7.4 km**
  - **7 400 m**
- **33.43 km**
  - **33 430 m**
- **6280 km**
  - **6 280 000 m**
- **8054 m**
  - **8.054 km**
- **37 040 m**
  - **37.04 km**
- **7 245 000 m**
  - **7 245 km**
1) Jayden rides his bike every day. The route is $1\frac{2}{5}$ km.

Explain why Jayden is incorrect.
What mistake do you think Jayden has made in his calculations?

2) Here are the prices of grapes at two different shops.

<table>
<thead>
<tr>
<th>Shop A</th>
<th>Shop B</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2kg = £1.50</td>
<td>600g = 72p</td>
</tr>
</tbody>
</table>

At which shop are the grapes better value for money? Explain how you know.
1) The mass of each of these three boxes is different.

The combined mass of boxes A and B is 1.2kg. Both boxes have a mass that is a multiple of 100. The combined mass of boxes B and C is 1350g. The combined mass of boxes A and C is ¾kg.

What is the mass of each box in grams?

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<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tbody>
<tr>
<td></td>
<td>_______ grams</td>
<td>_______ grams</td>
<td>_______ grams</td>
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</tbody>
</table>

2) The mass of four boxes totals 2kg. Each box has a mass that is a multiple of 50g. What could the possible masses of each box be? Find as many possible answers as you can.
1) Convert the length of each roll of bunting.

- 1.2 metres = __________ mm
- 1.03 metres = __________ mm
- 1 1/4 metres = __________ mm

- 1400mm = __________ metres
- 1020mm = __________ metres
- 1550mm = __________ metres

2) Convert each measurement and complete the comparison number sentence using <, > or =.

- 1/5 litres = __________ ml
- 225ml = __________ litres

- 1750ml = __________ litres
- 1 7/10 litres = __________ ml
1) A snail is exploring the garden.

a) The distance from the snail to the lawnmower is 540mm further than the distance from the lawnmower to the garden gnome. Is this statement true or false? Explain your answer.

b) Write two true statements and one false statement about this diagram. Can your partner identify the incorrect statement?

The capacity of this watering can is 1350ml.

It takes four full watering cans to water the flowers in my garden. To find the volume of water used in litres, I can divide 1350 by 100 and then multiply by 4.

Do you agree with this statement? Explain why.
1) Li is playing in the garden. She builds a tower out of two different heights of plastic bricks. Li builds a tower which is exactly 1000mm tall. How many of each brick could be in her tower?

<table>
<thead>
<tr>
<th>Small Brick</th>
<th>Tall Brick</th>
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</tbody>
</table>
1) Complete these conversions.

\[
\frac{1}{4} \text{ km} = \underline{\hspace{2cm}} \text{ metres} \quad 0.75 \text{ metres} = \underline{\hspace{2cm}} \text{ cm}
\]

\[
12 \text{ cm} = \underline{\hspace{2cm}} \text{ mm} \quad 76 000 \text{ mm} = \underline{\hspace{2cm}} \text{ metres}
\]

2) Complete the missing parts of these converted and partitioned lengths.

\[
8500 \text{ metres} = 8 \text{ km} + \underline{\hspace{2cm}} \text{ km}
\]

\[
240 \text{ cm} = 2 \text{ metres} + \underline{\hspace{2cm}} \text{ metres}
\]

\[
180 \text{ mm} = 10 \text{ cm} + \underline{\hspace{2cm}} \text{ cm}
\]

\[
25 250 \text{ mm} = 25 \text{ metres} + \underline{\hspace{2cm}} \text{ metres}
\]
1) Grace is playing with her toy cars. She puts them in a line. Each car is 86mm in length and the total length of the line is 0.86m.

I have 100 toy cars in my line.

Is Grace correct? Explain your answer fully.


2) The shop sells wood in metre lengths. Owen needs 2550cm of wood to build a tree house.

I need to buy 26 metres of wood for the tree house.

Do you agree with his statement? Explain why.


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? ________________