(1) The bar model shows that 1 m is equal to $1,000 \mathrm{~mm}$. Use the bar models to complete the conversions.

| 1 m |
| :---: |
| $1,000 \mathrm{~mm}$ |

a) | 1 m | 1 m | 1 m | 1 m | 1 m | 1 m |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |

b)

 mm
2) Fill in the missing values to convert between metres and millimetres.

(3)

Alex and Jack are converting 3.5 m into millimetres.

a) Complete both methods to show that they get the same answer.

b) Complete the conversion.
c) Whose method do you prefer? Explain your answer.
4. Use the information to complete the representations and conversions.

```
1 litre = 1,000 ml
```

a)

b)

c)

| 11 | 11 | 11 | 11 |
| :---: | :---: | :---: | :---: |
| $1,000 \mathrm{ml}$ |  |  |  |

d) | 11 |  |  |  |
| :---: | :---: | :---: | :---: |
| $1,000 \mathrm{ml}$ | $1,000 \mathrm{ml}$ | $1,000 \mathrm{ml}$ | 500 ml |

(5) Complete the conversions.
a) $15 \mathrm{~m}=$ $\square$ mm
e) $11.05 \mathrm{~m}=$

b) $15 \mathrm{I}=$ $\qquad$ ml
c) $63,000 \mathrm{ml}=$ $\square$
f) $\square$ $\mathrm{ml}=71.25 \mathrm{I}$
g) $\square$ $\mathrm{mm}=0.1 \mathrm{~m}$
d) $47,500 \mathrm{~mm}=$ $\square$
h) $100 \mathrm{I}=$ $\square$
a) Complete both methods to show that they get the same answer.

b) Complete the conversion.
c) Whose method do you prefer? Explain your answer.
4) Use the information to complete the representations and conversions.
 representa
b)

c)
a)


| 1 I | 11 | 11 | 11 |
| :---: | :---: | :---: | :---: |
| $1,000 \mathrm{ml}$ |  |  |  |

d) | 11 |  |  |  |
| :---: | :---: | :---: | :---: |
| $1,000 \mathrm{ml}$ | $1,000 \mathrm{ml}$ | $1,000 \mathrm{ml}$ | 500 ml |

5 Complete the conversions.
a) $15 \mathrm{~m}=$ $\square$ mm
b) $15 \mathrm{I}=$ $\square$ ml
c) $63,000 \mathrm{ml}=$ $\square$
d) $47,500 \mathrm{~mm}=$ $\square$
d) $47,500 \mathrm{~mm}=$ m
e)
) $11.05 \mathrm{~m}=$ $\square$ mm
f) $\square$ $\mathrm{ml}=71.25$ I
g) $\square$ $\mathrm{mm}=0.1 \mathrm{~m}$
h) $100 \mathrm{I}=$ $\square$Eva wants to go on a ride at a theme park.


Can Eva go on the ride?
Explain your answer.
(7) Write $<,>$ or $=$ to compare the measurements.
a) $\frac{2}{5} \mathrm{~km} \bigcirc 600 \mathrm{~m}$
b) $\frac{9}{10} \mathrm{I}+100 \mathrm{ml} \bigcirc 1,000 \mathrm{ml}$
c) $0.8 \mathrm{~km}-300 \mathrm{~m} \bigcirc \frac{7}{10} \mathrm{~km}$
d) $\frac{1}{5} \mathrm{I}+200 \mathrm{ml}+\frac{4}{5} \mathrm{ml} \bigcirc \frac{1}{4} \mathrm{l}+1 \mathrm{l}$
(8) A piece of string is 2.76 m long.

How many 30 mm pieces can be cut from the string?
9) Orange juice is sold in bottles and cartons.
a) Which is better value, the carton or the bottle?

Explain your answer.
b) Dexter buys 12 cartons and 5 bottles of juice.


He pours them into glasses with 200 ml of juice in each glass.
He sells each glass of juice for 40 p.
He sells all the glasses of juice.
How much profit does he make?

