## Measuring Smoothies

I can convert metric measures involving volume and capacity (litres and millilitres).
000

1) Match the measurements in millilitres with their equivalents in litres.

| 2700 ml |
| :---: |
| 4400 ml |
| 1950 ml |
| 7280 ml |
| 3406 ml |
| 3070 ml |


| 4.4 l <br> 7.28 l <br> 3.406 l <br> 3.07 l <br> 2.7 l <br> 1.95 l |
| :--- |

2) Multiply by 1000 to convert these measurements to millilitres.

| 2.6 l | 3.4 l | 5.7 l | 8.6 l | 3.25 l | 4.67 l | 6.53 l | 4.209 l | 7.05 l |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2600 ml |  |  |  | 32501 |  |  |  |  |

3) Divide by 1000 to convert these measurements to litres.

| 5600 ml | 2300 ml | 6800 ml | 4500 ml | 3450 ml | 7650 ml | 1240 ml | 4401 ml | 5060 ml |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5.61 |  |  |  | 3.451 |  |  |  |  |

4) Decide whether to multiply or divide by 1000 to convert these measurements to litres or millilitres.

| 5.5 l | $\longrightarrow$ | 6450 ml | $\longrightarrow$ |
| :---: | :---: | :---: | :---: |
| 6.8 l | $\longrightarrow$ | 3.002 l |  |
| $3400 \mathrm{ml} \longrightarrow$ | 2.86 l |  |  |

5) Lucy's mum told her to use 6700 ml of orange juice to make enough servings of her tropical smoothie to share with the class. However, Lucy's measuring jug only shows measurements in litres. Lucy thinks that 6700 ml is the same as 67 l . Is she


## Measuring Smoothies Answers



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1) Some measurements have been given in millilitres, and some in litres. Decide whether to multiply or divide by 1000 to convert the measurements to the other unit.

| Litres | Millilitres | Litres | Millilitres |
| :---: | :---: | :---: | :---: |
| 3.5 l |  | 3.505 l |  |
|  | 2700 ml |  | 2005 ml |
| 8.45 l |  | 9.006 l |  |
|  | 2560 ml | 4.3 l |  |
| 3.05 l |  |  | 6820 ml |
|  | 4070 ml | 2.03 l |  |
|  | 4401 ml |  | 9600 ml |

2) Order these measurements from smallest to largest.
a) 3005 ml
3.551
3505ml
3.0551

| Smallest |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  | Largest |  |
|  |  |  |  |

b)
0.551
5.551
5005ml
5.351
355 ml

| Smallest |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | Largest |
|  |  |  |  |  |

3) Are these statements true or false? Tick the true statements and cross the false ones.

| $5500 \mathrm{ml}=5.5 \mathrm{l}$ | $\square$ | $4.3 \mathrm{l}=4030 \mathrm{ml}$ | $\square$ |
| :--- | :--- | :--- | :--- |
| $6.07 \mathrm{l}=6700 \mathrm{ml}$ | $\square$ | $2005 \mathrm{ml}=2.05 \mathrm{l}$ | $\square$ |

4) Hamish is making a fruit smoothie. He needs to make more than 31 to have enough to share with his friends. He adds 1.3 l of pineapple juice, 1550 ml of orange juice and 230 ml of mango juice. Does he have enough for all his friends?
$\qquad$
$\qquad$


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000

1) Some measurements have been given in millilitres, and some in litres.

Convert each measurement to the other unit.

| Litres | Millilitres | Litres | Millilitres |
| :---: | :---: | :---: | :---: |
| 3.5 l |  |  | 2700 ml |
| 3.55 l |  |  | 2707 ml |
| 3.505 l |  |  | 2077 ml |
| 3.05 l |  |  | 2007 ml |
| 3.005 l |  |  | 2070 ml |

2) Order these measurements from smallest to largest.
a) 0.251
5.7l
5002ml
5.12l
500ml

| Smallest |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  | Largest |

b) 1.77 l
700 ml
1.27l
0.071
1.077l
1700 ml

| Smallest | Largest |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |

3) A cup has a capacity of 275 ml . A mug has a capacity of 450 ml . A jug has a capacity of 1.25l. Complete these statements using < or >.

| 10 cups | 3 mugs | 2 jugs |
| :---: | :---: | :---: |
| 5 mugs | 3 jugs | 20 cups |
| 5 jugs | 10 mugs | 15 cups |

4) Luca brought 3.561 of apple juice to add to the fruit smoothies that they were making in class. Caitlin brought $3 \frac{3}{4} \mathrm{l}$ of pineapple juice and Alexa brought 3056 ml of cranberry juice.
a) Who brought the most to drink?
b) Order the amounts that they brought to drink, from smallest to largest amount.
c) What is the difference, in millilitres, between the smallest and largest amount?
d) How much did they bring to drink in total? Give your answer in litres.

## Measuring Smoothies Answers



