

# MEASURING CAPACITY

1) Pick the best estimate of the capacity of the following:

- |                                |           |            |
|--------------------------------|-----------|------------|
| a bucket                       | ii 100 mL | iii 4 L    |
| i 4 mL                         |           |            |
| b lemonade bottle              | ii 2 L    | iii 4 L    |
| i 50 mL                        |           |            |
| c coffee mug                   | ii 50 mL  | iii 100 mL |
| i 20 mL                        |           |            |
| d wine glass                   | ii 50 mL  | iii 100 mL |
| i 20 mL                        |           |            |
| thimble                        | ii 2 mL   | iii 5 mL   |
| i 1 mL                         |           |            |
| f teapot                       | ii 1 L    | iii 2 L    |
| i 500 mL                       |           |            |
| g baby's bottle                | ii 200 mL | iii 500 mL |
| i 100 mL                       |           |            |
| h ice-cream container          | ii 1 L    | iii 4 L    |
| i 500 mL                       |           |            |
| i orange juice container       | ii 200 mL | iii 2 L    |
| i 20 mL                        |           |            |
| j flower vase                  | ii 200 mL | iii 300 mL |
| i 100 mL                       |           |            |
| k saucerpan                    | ii 1 L    | iii 10 L   |
| i 0.1 L                        |           |            |
| l eye dropper                  | ii 1 mL   | iii 10 mL  |
| i 0.1 mL                       |           |            |
| m one drop from the eyedropper | ii 0.1 mL | iii 1 mL   |
| i 0.01 mL                      |           |            |

2)

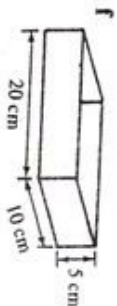
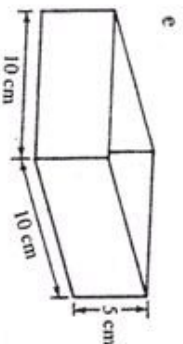
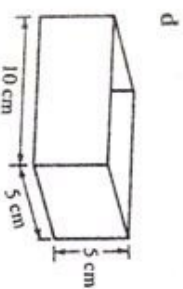
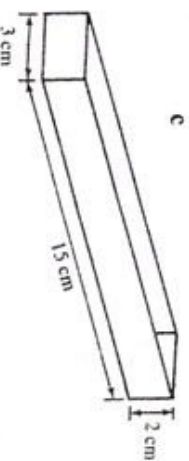
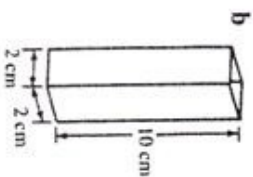
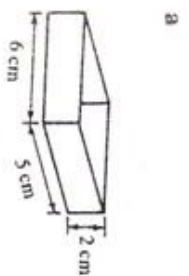
Match each object in column I with a sensible measure in column II.

- | Column I                 | Column II  |
|--------------------------|------------|
| i Bath tub               | a 5 mL     |
| ii Bucket                | b 240 mL   |
| iii Petrol tank of a car | c 1 L      |
| iv Glass                 | d 8 L      |
| v Spoon                  | e 60 L     |
| vi Swimming pool         | f 400 L    |
| vii Thermos flask        | g 60 000 L |

# VOLUME AND CAPACITY RELATIONSHIP

- 1 What size cube, in  $\text{cm}^3$ , would be needed to hold one litre of liquid?
- 2 Draw a cube which would hold one litre of liquid. Show the dimensions on your cube in cm.

3 i What is the capacity in millilitres of each of the following?



2 Below are the dimensions of some aquariums. Find the amount of water in

i cubic centimetres,      ii litres and      iii kilograms:

a) 20cm by 20cm by 30cm

b) 30cm by 20cm by 40cm

c) 50cm by 20cm by 20cm

d) 40cm by 30cm by 30cm

e) 140cm by 130cm by 80cm

RELATIONSHIP BETWEEN METRIC UNITS

1 Which measures are the same amount?

a 48 L of water is the same as:

- i 48 kg
- ii 48 g

b 15 cm<sup>3</sup> of water is the same as:

- i 15 L
- ii 15 mL

c 64 g of water is the same as:

- i 64 cm<sup>3</sup>
- ii 6400 cm<sup>3</sup>

d 6.3 kg of water is the same as:

- i 6.3 mL
- ii 6.3 L