Name: _____

1. Complete these conversions.

(a) 1 litre [____] cm^3 (b) 1 m^3 [____] litres

(c) 1 cm^3 [____] mm^3 (d) 150 ml [____] litres

(e) 75 cm^3 [____] mL (f) 1500 cm^3 [____] litres

(g) 8 cm^3 [____] mm^3 (h) 0.05 ml [____] mm^3

2. Choose the best estimate of the capacity of this plastic drink cup.

A 3 cm^3
B 30 cm^3
C 300 cm^3
D 3000 cm^3

[____]

7 cm
10 cm
5 cm
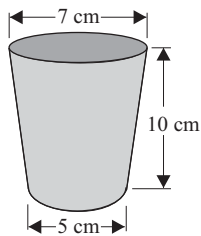
3. How many 375 mL cans of water would it take to fill a 3 litre saucepan?
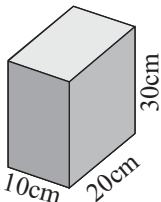
[____]

4. A kettle filled with two litres of water is emptied into eight cups, equally.
What volume of water, in cm^3, is in each cup?

[____]

5. Kumkleen detergent is sold in three different sizes.
Which is the *cheapest per millilitre*?

A $1.15 for 500 ml.
**B** $2.75 for 1.25 litres.
C $11.20 for 5 litres.

[____]

6. Calculate the *volume,* in cm^3, of this object.

30cm
10cm 20cm

[____]

7. In a science experiment, hydrochloric acid is diluted with distilled water in the ratio of one part of acid to five parts of water.
What *volume* of acid should be added to 3 litres of water?
Write answer in *millilitres*.

[____]

8. (a) Find the *capacity*, in *litres*, of a fish tank with the dimensions shown.

20 cm
25 cm   40 cm

[____]
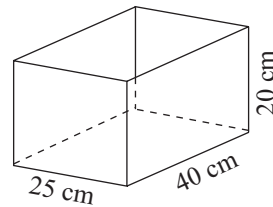
(b) If the tank is filled to 2 cm from the top with water, how much water is required?
Write answer in *litres*.

[____]

(c) If the recommended stocking rate is 1 fish per 3 litres of water, how *many fish* could be placed in the tank if the water level is 2 cm from the top of the tank?

[____]

(d) If fish-tank rocks have an average volume of 100 cm^3, how *many rocks* would it take to *raise* the water level 1 cm?

[____]