

WA5MMGTH2

Three-dimensional space and structures

Core + Challenge

NAPLAN-style

Capacity

I can choose mL or L, estimate capacity, and read and shade measuring jugs.

Name: _____ Date: _____ Score: _____ / 57

Key idea

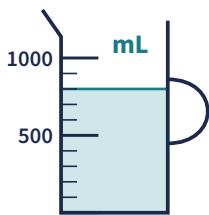
Capacity is how much a container can hold. We measure small amounts in **millilitres (mL)** and larger amounts in **litres (L)**.

1 L = 1000 mL. One millilitre is tiny: about 20 drops of water. A large milk carton holds 1 L.

To read a jug, first work out **what each small step is worth**: the gap between two labels $\div$ the number of steps.

Example: this jug has **5 steps** from 0 to 500 mL, so each step is $500 \div 5 = 100 \text{ mL}$. The water is 3 steps past 500: **800 mL**.

Reading a jug



1 L = 1000 mL



A Warm up choose, estimate, read and shade

/ 16 marks

Would you measure the capacity in **mL** or **L**? Circle one. 1 mark each.

1 a **teaspoon**



mL

L

2 a **bath**



mL

L

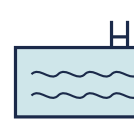
3 a **glass**



mL

L

4 a **swimming pool**



mL

L

Circle the **best estimate** of how much each container holds. 1 mark each.

5 a cleaning **bucket**



10 mL

100 mL

10 L

6 a school **drink bottle**



6 mL

600 mL

60 L

7 a **mug** of hot chocolate



25 mL

250 mL

25 L

8 a garden **watering can**



9 mL

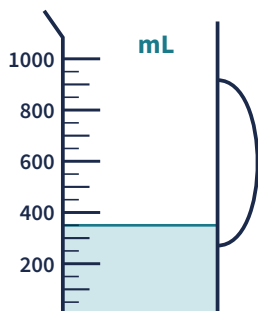
90 mL

9 L

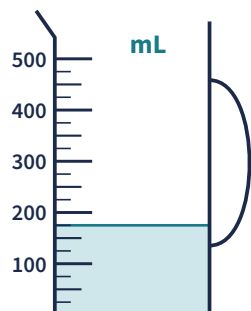
Capacity · WA5MMGTH2

How much water is in each jug? Write the amount with its unit. 1 mark each.

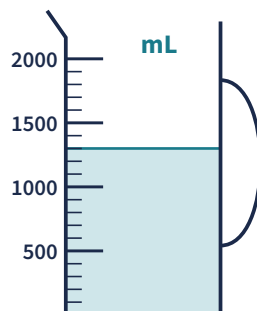
9



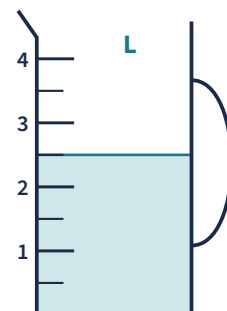
10



11



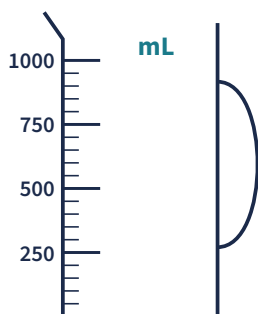
12



Shade each jug to show the amount. 1 mark each.

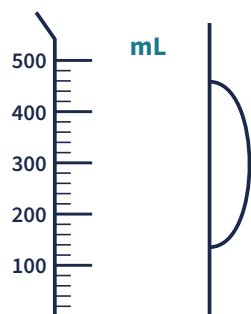
13

Shade 600 mL



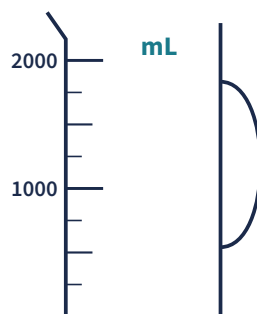
14

Shade 260 mL



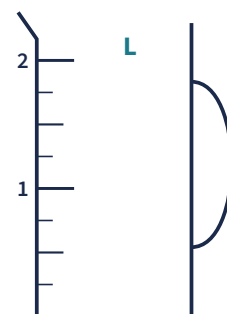
15

Shade 1250 mL



16

Shade 750 mL



B

Practise use the skill

/ 22 marks

1

Draw a line to match each container to its **capacity**.

[2 marks]

soft drink can •

kitchen sink •

bath •

rainwater tank •

backyard pool •

• 150 L

• 5000 L

• 375 mL

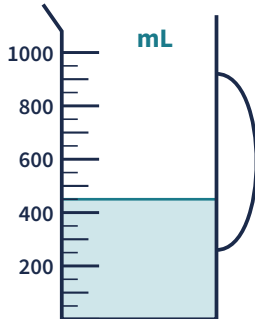
• 50 000 L

• 20 L

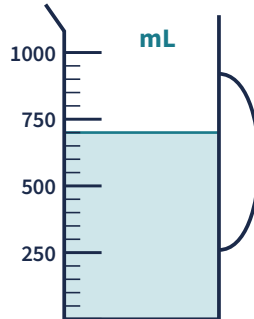
Capacity · WA5MMGTH2

- 2 a) How much water is in jug A and in jug B? b) Which jug has more water? How much more? c) Both jugs are poured into a bowl. How much water is in the bowl? [3 marks]

A

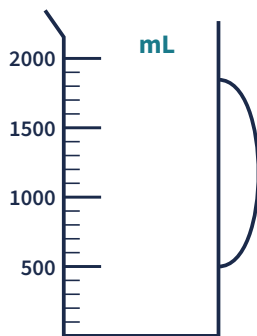


B



- a) _____
b) _____
c) _____

- 3 Mia makes lemonade. She mixes **250 mL** of lemon juice, **150 mL** of sugar syrup and **1 L** of water. a) How much lemonade does she make? b) Shade the jug to show it. c) How many **200 mL** glasses can she fill? [3 marks]



- a) _____
b) _____
c) _____

- 4 At the school sports carnival, a drinks cooler holds **10 L** of water. Each paper cup holds **250 mL**. How many cups can be filled from the cooler? [2 marks]

Answer: _____

- 5 Mark each drink bottle's capacity on the number line with its letter. Then write the letters from **smallest** to **largest** capacity. **A** 750 mL, **B** $1\frac{1}{2}$ L, **C** 2 L 250 mL, **D** 500 mL, **E** 2750 mL [3 marks]



Capacity · WA5MMGTH2

- 6 Leo's fish tank holds **30 L**. He pours in **8** full jugs of water. Each jug holds **2 L**. **a)** [2 marks]
How much water is in the tank now? **b)** How many **more** jugs does he need to fill the tank?

Answer: _____

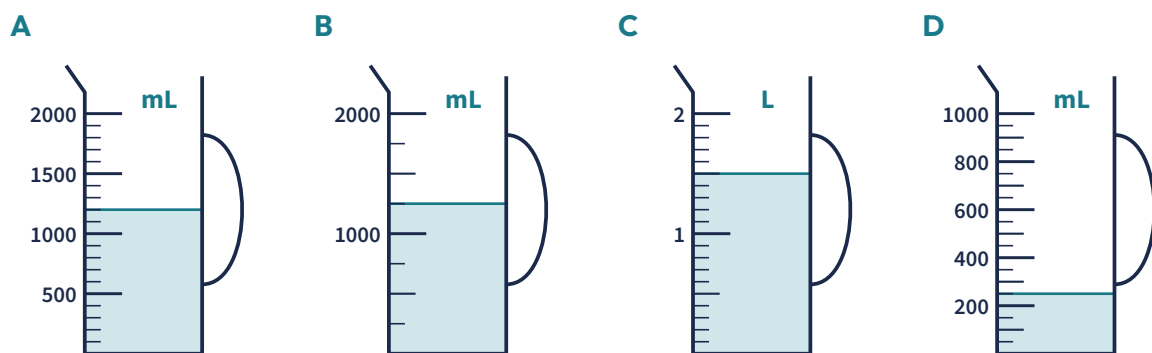
- 7 At Coles, a **2 L** bottle of orange juice costs **\$4.50**. A **500 mL** bottle costs **\$1.60**. [2 marks]
Josh needs 2 L of juice. Is it cheaper to buy one 2 L bottle or four 500 mL bottles?
By how much?

Answer: _____

- 8 Perth is a dry city, so we save water. A tap drips **50 mL** of water every minute. **a)** [2 marks]
How many litres drip away in **1 hour**? **b)** How many litres in **one day**?

Answer: _____

- 9 Write how much water is in each jug. Then circle the jug that has exactly [3 marks]
1 L 250 mL of water in it.



A _____ **B** _____ **C** _____ **D** _____

Capacity · WA5MMGTH2

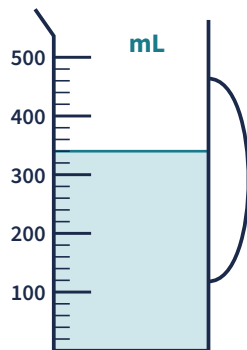
C

Think it through *explain your thinking*

/ 10 marks

- 1 Emma says, “2 L is less than 1500 mL, because 2 is smaller than 1500.” Do you agree with Emma? Explain. [2 marks]

- 2 Sam says the jug shows **320 mL**. Do you agree with Sam? Explain his mistake. [2 marks]



- 3 **Always, sometimes or never true?** “A **taller** container holds more than a **shorter** container.” Circle one and give examples. [2 marks]

Always

Sometimes

Never

- 4 Which is the **odd one out**? 1000 mL, 1 L, 4×250 mL, 10×10 mL Explain. [2 marks]

- 5 Sort these amounts into the table: 350 mL, 1 L, 1200 mL, $2\frac{1}{2}$ L, 999 mL, $\frac{1}{2}$ L, 750 mL, 1500 mL. Explain how you decided where **999 mL** goes. [2 marks]

	Written in mL	Written in L
Less than 1 L		
1 L or more		

Capacity · WA5MMGTH2

D**Challenge** *stretch yourself*

/ 9 marks

- 1** You have a **9 L** bucket and a **4 L** bucket, and a tap. The buckets have no markings. **a)** How can you get **exactly 1 L** of water? **b)** Keep going. How can you then get **exactly 6 L**? List your steps. [3 marks]

Answer: _____

- 2** A 2 L jug is filled using only **300 mL** cups and **200 mL** cups. Every cup is full. You may use just one size of cup if it works. Find **all** the different ways to fill the jug exactly. Which way uses the **fewest** cups? [3 marks]

Answer: _____

- 3** Mum had some lemonade in a jug. She poured in **200 mL** more. Then Ava drank **half** of the lemonade in the jug. Then Ben drank **150 mL**. Now there is **350 mL** left. How much lemonade was in the jug at the start? Show how you worked backwards. [3 marks]

Answer: _____

How did I go?Warm up ____ / 16 Practise ____ / 22 Think it through ____ / 10 Challenge ____ / 9 **Total ____ / 57**Want help with Year 5 maths? Our tutors make it click. **Book a free trial class at [edulift.com.au](https://www.edulift.com.au)**