



# A Warm-up. Listen to your teacher.

1,000ml	<b>**</b>	1/2 litre	<b>\$</b>
	10	959	litre
More than 25 litres	3	millilitres	

#### **B** Capacity

1. How much liquid is in each container?







(c)



(d)



- 2. Colour these containers to show the correct amounts of liquid.
  - (a) 400ml















Match the pictures to the correct box.



Less than 1 litre

About 1 litre

More than 1 litre

 46.5 Estimate, compare, measure and record capacity using appropriate metric units if, will and selecting trainments of measurement. Strand Unit Capacity



A Collect some containers. Estimate the capacity of each and then measure. Work out the difference between your estimate and the actual capacity.

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1	1
7	A

Item	My estimate	Actual capacity	Difference

- Capacity
  - The roof has sprung a leak. It rained for <sup>3</sup>/<sub>4</sub> of an hour.
    - (a) How many times did Imelda have to empty the basin if it filled up in 9 minutes?
    - (b) How much water did the basin catch altogether if it holds 3 litres?
  - How long will Bill's boat stay afloat? It can take on 2001 of water before it sinks, but there are 251 coming in every minute?



Converting millilitres to litres and millilitres.

Example 4,800ml = 4l 800ml.

1. millilitre	litres and millilitres
(a) 3,700ml	
(b) 2,567ml	
(c) 4,600ml	
(d) 2,989ml	
(e) 4,689ml	
(f) 8,000ml	
(g) 4,005ml	
(h) 5,034ml	

2.	litres and millilitres	millilitres
	(a) 3l 200ml	
	(b) 3l 530ml	
	(c) 1l 789ml	
	(d) 4l 654ml	
	(e) 1l 340ml	
	(f) 3l 4ml	
	(g) 6l	
	(h) 3l 45ml	

Adding and subtracting litres and millilitres.

- 1 755

#### Adding and subtracting posers.

- A car has 6½t of biofuel left in its tank. How much fuel will be in the tank if the driver adds 201 750ml?
- 2. A printing cartridge contains 1 litre of black ink. How much is left if 475ml of the ink are used?
- Naomi adds 80ml of lemon juice to 230ml of orange juice. She drinks 120ml of the mixture. How much has she left?



#### Litres and decimals.

- Write as litres using a decimal point e.g. 3l 250ml = 3-25l
  - (a) 4l 280ml = \_\_\_\_
- (b) 11 630ml = \_\_\_\_
- (c) 4l 550ml =

- (d) 3l 700ml =
- (e) 7l 430ml = \_\_\_\_
- (f) 3t 50mt =

- (g)
- $50ml = _{--}$ (h)
- 71 = \_\_\_
- 70mt = .



- (a) 4.531 = \_\_\_\_
- (b) 2.56l = \_\_\_
- (c) 1-981 = \_\_

- (d) 3.78l = \_\_\_\_
- (e) 7.56l = \_\_\_\_
- (f) 12-40t = \_\_\_\_

- (g) 3·05l = \_\_\_\_
- (h) 2-3t = \_\_\_
- (i) 6-081 = \_\_\_\_

- 3. (a)

- 3.50
- 4.23

(b)

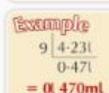
- (c) 5-71
- (d) | 4-26

- x 6

- 4. (a) 4 x 3l 200ml
- (b) 4 x 31 20ml
- (c) 7 x 3t 560mt
- (d) 6 x 8t 140mt
- (a) 5 2-35L (b) 4 1-36L (c) 6 8-16L

- (d) 9 4-23L

- (a) 5l 850ml ÷ 5
- (b) 91 520ml ÷ 8
- (c) 9l 660ml ÷ 7
- (d) 81 850mt ÷ 3



Example

3-48

X., 7

24.36 = 241360ml

## C Answer the questions.

- The Pink Cat perfume shop sold 8 bottles, each containing 440ml. How much perfume is that?
- Share a bottle of water containing 24 equally among 5 people. How much will each person get?



Strand Measure Strand Unit Capacity

#### Topic 26: Capacity



- A 1. Shane sells 8 strawberry smoothies every hour. Each smoothie has 600mL. How much strawberry smoothie mixture does he sell in one hour?
  - If Shane divided 31 of 'Very Berry' smoothies among 5 people, how much would they each get?
  - 3. The most popular drink is the 'Tropical Smoothie'. Shane sells 9 every hour. If he makes up 5-4l of the mix every hour, how much would each person get?
  - 4. How much 'Tropical Smoothie' mix does Shane need to make during a 5-hour day if he sells nine smoothies measuring 600ml every hour?
  - 5. Shane squeezes around 90ml of juice from each orange. About how many oranges does he need to fill a one-litre jug? Why can we not say for certain?
- B 1. Around 50ml of juice comes from a lemon. About how many lemons need to be squeezed to make 0-5l of lemon juice? Why can we not say for certain?
  - If Shane squeezes 5 oranges and 4 lemons, how much liquid can he expect to get? Is it possible that he could get more or less than he expects?
  - Shane spends €180 on fruit every day. If he sells 85 smoothies a day at €3 each, how much profit does he make?
  - 4. If Shane can make 6t of smoothie in 20 minutes, how much can he make in an hour? How much can he make in a 5-hour day?
  - If Shane puts three ice cubes, each with 50ml of ice, into a 600ml cup, how much smoothie mix does he need to fill the cup?

 466 Solve and complete practical tasks and problems involving the addition, subtraction, multiplication and simple division of units of capacity 4 and mt. Strand Monarm Strand Unit Capacity



# A Explain it! What is the difference between kilograms and litres?

#### B Do It/

- Write the following as litres using a decimal point.
  - (a) 4l 360ml
- (b) 3l 290ml
- (c) 8l 110ml
- (d) 4t 400mt

- (e) 41 40ml
- (f) 40t 40mt
- (g) 5l 160ml
- (h) 11 10ml

- Write the following as i and mi.
  - (a) 4-391
- (b) 1-18t
- (c) 8-39t
- (d) 50-501

- (e) 5.51
- (f) 5-051
- (g) 2-021
- (h) 0-031

- (a) 5l 280ml + 3l 884ml
- (a) 3l 863ml 1l 914ml
- (a) 4 x 2l 840ml
- (a) 6l 480ml ÷ 6



- (b) 3l 65ml + 2l 650ml
- (b) 8l 70ml 2l 650ml
- (b) 6 x 31 90ml
- (b) 8t ÷ 5 (no remainder)

### C solve it/

Fact: A litre of water weighs 1kg.

The bottle on the scales contains exactly one litre of water. Why does the needle on the scales not point exactly to 1kg?



# D Say It/

#### Choose sensible words to fill the blanks.

For breakfast, Naomi had cornflakes covered in \_\_\_\_ mt of fresh milk and a cup containing \_\_\_ ml of tea. Before setting out for work, she took two tablespoons of medicine, each containing 15 \_\_\_. Her route to work measures 15 \_\_\_. Naomi had to stop for petrol and bought 40 \_\_\_ at the service station. She also bought 2 bananas weighing 420 \_ She arrived in work 10 \_\_\_ late because of heavy traffic. Before going into her office, she filled a paper cup with \_\_\_\_ of water from the water cooler. Her printer was dry so she poured 35 \_\_\_ of ink into the small tank. Naomi had a meeting at the other end of the building. It took her 5 minutes to walk the \_\_\_ metres to the meeting room. The meeting lasted for 90 \_\_\_\_ after which she had lunch. It was then \_\_\_ pm.



# E Share It/

You wish to measure 4 litres of water and all you have is a 31 container, a 51 container and plenty of water. There are no markings on the containers.

Can you measure exactly 4 litres of water (without estimating) by pouring water from one container to the other?

