

**GRADE 6 MATHS STUDY PACK**

**2 WEEKS**

**WEEK ENDING 19-06-2020**

Grade 6

Topic: Capacity/Volume Exercise 1

13 Marks

Student Name:

Capacity is the amount of space inside a container.

We measure capacity in kilolitres, litres and millilitres



1 ℓ cool drink



5 ml teaspoon



250 ml cup

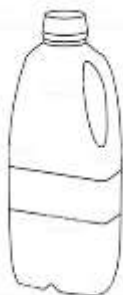
1. Using ml, ℓ and kℓ what would you use to measure the following?

- The amount of water you use in a month
- The amount of water used to mix baby milk formula for one feed
- The amount of water in a full bath tub
- The amount of water in a swimming pool

2. Look at the pictures and the measurements on them.



340 ml



2 ℓ milk



100 ml



5 kℓ



200 ml teaspoon 5 ml Orange juice  $\frac{1}{2}$  l

- Write the measurements in ascending order.
- How many litres would the JoJo tank hold?
- How many millilitres would the JoJo tank hold?
- How many cups would make 1 l?
- How many tea spoons of Panado syrup could you get from one such bottle?
- How many millilitres would be in the orange juice?
- If I drank  $\frac{1}{2}$  of orange juice, how many millilitres would be left?
- How many panado bottles would fill the milk bottle?

Grade 6

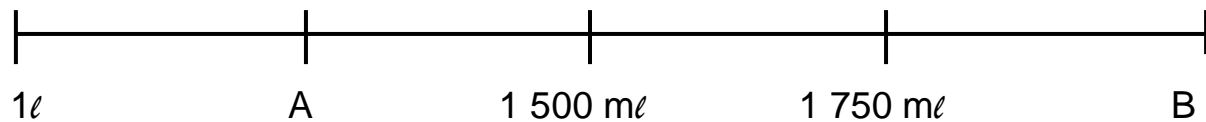
Topic: Capacity/Volume

9 Marks

Student Name:

Exercise 2

1. Look at the number line. What is the value of A and B?

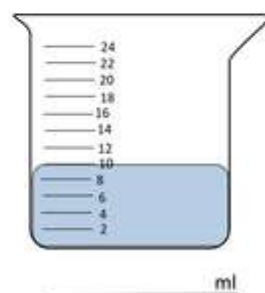
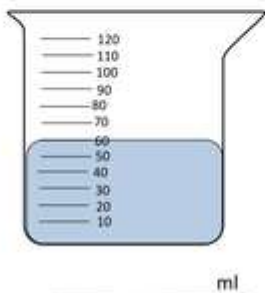
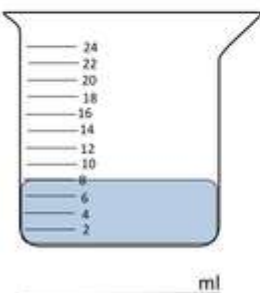
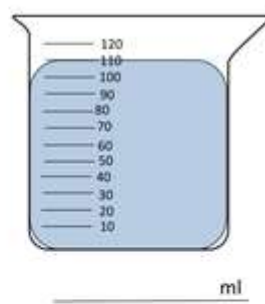
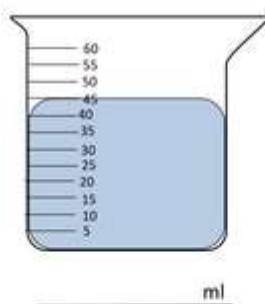
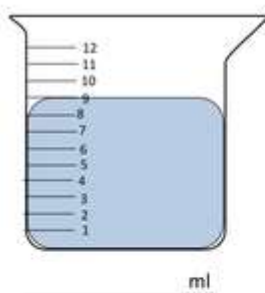


2.

A

B

C



E

F

G

- Write down how many millilitres of water in each of the six jugs.
- Write the amount of liquid that is in each of these jugs in descending order.
- Write down the maximum capacity of each of the six jugs.
- If I pour 40 ml of liquid out of jug F, how much liquid will be left?
- How much water will I need to fill jug G?

f. If I pour  $\frac{1}{100}$  l into jug E how much liquid will be in it?

g. Write down how many litres of water is in each of the six jars.

# Exercise 3

6 Marks

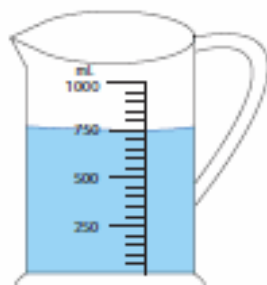
Name : \_\_\_\_\_

Score : \_\_\_\_\_

## Measuring Jug

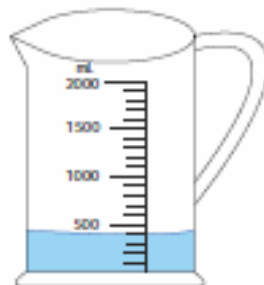
1) If you add 200 mL of water in each jug, what would be the new reading?

a)



\_\_\_\_\_ mL

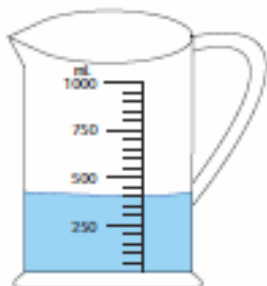
b)



\_\_\_\_\_ mL

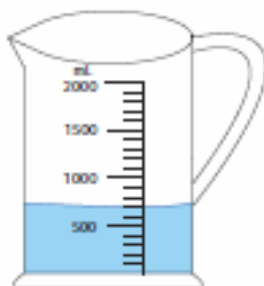
2) How much water required to fill each jug up to 800 mL?

a)



\_\_\_\_\_ mL

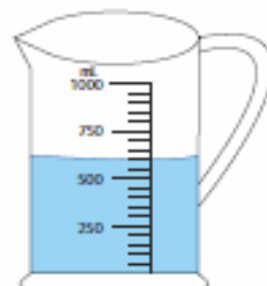
b)



\_\_\_\_\_ mL

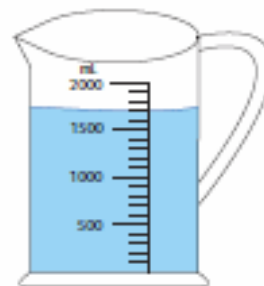
3) How much water should you pour out from each jug to drop down the water level to 300 mL?

a)



\_\_\_\_\_ mL

b)



\_\_\_\_\_ mL

Grade 6

Topic: Capacity/Volume

6 Marks

Student Name:

Exercise 4

Spar sell the following items in 1 week.

Use this table to answer the questions.

	<b>Milk</b>	<b>Cool drink</b>	<b>Ice cream</b>
<b>Monday</b>	77 000 ℓ	32 468 l	6 844 l
<b>Tuesday</b>	45 674 l	28 346 l	10 543 l
<b>Wednesday</b>	39 566 l	25 672 l	8 895 l
<b>Thursday</b>	40 723 l	22 377 l	6 340 l
<b>Friday</b>	42 497 l	34 845 l	11 755 l

- 1.Estimate how many litres of cool drink were sold on Thursday and Friday?
2. How many litres of cool drink were sold during the week?
3. Calculate the number of ice cream bought in a week.
4. What is the difference in litres between milk and ice cream sold in a Week?
5. On which day was the most ice cream bought?
6. Which was the most sold product of the week?

Grade 6

Topic: Capacity/Volume

12 Marks

Student Name:

Exercise 5

Converting millilitres to litres

To go from ml to litres take the number that you get given and divide by 1000

Example:  $1000\text{ml} \div 1000 = 1\text{litre}$ .

$2\,860\text{ ml} \div 1\,000 = 2,86\text{ l}$

Convert the following capacities to litres:

1.  $4\,960\text{ ml} =$

2.  $9\,260\text{ ml} =$

3.  $3\,000\text{ml} =$

4.  $1\,280\text{ml} =$

5.  $1\text{l } 450\text{ml} =$

6.  $5\text{l } 280\text{ml} =$

7.  $6\text{l } 500\text{ml} =$

8.  $6\text{l } 60\text{ml} =$

9.  $300\text{ml} =$

10.  $700\text{ml} =$

11.  $450\text{ml} =$

12.  $44\text{ml} =$



Grade 6

Topic: Capacity/Volume week 11

12 Marks

Student Name:

Exercise 6

Converting from litres to millilitres

$$2,5\text{l} \times 1000 = 2\,500\text{ml}$$

Converting from kilolitres to millilitres multiply by 1 000 000

$$3\text{kl} \times 1\,000\,000 = 3\,000\,000\text{ml}$$

1.  $3\text{l} =$  ml

2.  $7\text{l} =$  ml

3.  $2\text{l } 450\text{ml} =$  ml

4.  $4,05\text{l} =$  ml

5.  $2,14\text{l} =$  ml

6.  $0,14\text{l} =$  ml

7.  $14\text{l} =$  ml

8.  $20\text{kl } 430\text{l} =$  ml

9.  $\frac{1}{2}\text{kl} =$  ml

10.  $30\text{kl} =$  ml

11.  $6\frac{1}{2}\text{kl} =$  ml

12.  $2,4\text{kl} =$  ml

Grade 6

Topic: Capacity/Volume

10 Marks

Student Name:

Exercise 7

Converting kilolitres to litres multiply by 1 000

Example:  $12\text{kl} \times 1000 = 12\,000\text{litres}$

$$19\text{kl } 127\text{l} = 19 \times 1000 + (127\text{l}) = 19\,127\text{litres}$$

$$16,3\text{kl} = 16 \times 1000\text{l} + (300\text{l}) = 16\,300\text{litres}$$

Convert the following to litres

$$1. 5\text{kl} = \quad \quad \quad \text{l}$$

$$2. 17\text{kl } 235\text{l} = \quad \quad \quad \text{l}$$

$$3. 8\text{kl } 9\text{l} = \quad \quad \quad \text{l}$$

$$4. 55\text{kl} = \quad \quad \quad \text{l}$$

$$5. \frac{1}{2} \text{kl} = \quad \quad \quad \text{l}$$

$$6. \frac{3}{5} \text{kl} = \quad \quad \quad \text{l}$$

$$7. 0,8 \text{kl} = \quad \quad \quad \text{l}$$

$$8. 6.3\text{kl} = \quad \quad \quad \text{l}$$

$$9. 3\frac{1}{2} \text{kl} = \quad \quad \quad \text{l}$$

$$10. 40\text{kl} = \quad \quad \quad \text{l}$$

Grade 6

Topic: Capacity/Volume

17½ Marks

Student Name:

Exercise 8

Copy and complete the table.

Capacity in litres and millilitres	Litres in fractions	Litres in decimal	Conversions to millilitres
	$1\frac{1}{2}\ell$	1,5 ℓ	
	$1\frac{1}{4}\ell$		1 250 mℓ
	$1\frac{3}{4}\ell$		
3 ℓ 500 mℓ			
3 ℓ 750 mℓ			
	$5\frac{1}{2}\ell$		
	$6\frac{1}{4}\ell$		
		10,75 ℓ	
	$2\frac{1}{2}\ell$		
	$7\frac{1}{5}\ell$		
	$12\frac{2}{5}\ell$		
	$10\frac{3}{5}\ell$		

- |                     |                  |                  |          |
|---------------------|------------------|------------------|----------|
| 1. 2 960 ml         | 3,4 ℓ            | $1\frac{1}{2}$ ℓ | 2 560 ml |
| 2. 3,560 ℓ          | 3,490 ℓ          | $3\frac{1}{2}$ ℓ | 3 400 ml |
| 3. 550 ml           | 0,5 ℓ            | 0,56 ℓ           | 99 ml    |
| 4. 67,8 ℓ           | 6 780 ml         | $6\frac{3}{4}$ ℓ | 6.09 ℓ   |
| 5. $2\frac{1}{4}$ ℓ | 2,3 ℓ            | 2,28 ℓ           | 2 200 ml |
| 6. $7\frac{3}{4}$ ℓ | 7 800 ml         | 7 ℓ 90 ml        | 78,9 ℓ   |
| 7. 3,04 ℓ           | $3\frac{1}{2}$ ℓ | 3 390 ml         | 3,45 ℓ   |

Grade 6

Topic: Capacity/Volume

12 Marks

Student Name:

Exercise 10

Problem Solving

1. One container holds 1.6 ℓ, a second holds 1 400 mℓ and a third holds 2 ℓ 350 mℓ. What is their total capacity?
2. Mavis drank 1 600 mℓ of water today and Peter drank 1, 35 ℓ. How much more did Mavis drink than Peter?
3. Dad's car uses 18 ℓ of petrol a day. How many litres of petrol will he use in 8 weeks?
4. A farmer uses 1 260 ℓ of liquid fertiliser on his plants in a week. How much fertiliser does he use in 367 days?
5. Sam has 4 000 mℓ of shampoo. If he uses a quarter litre of shampoo to wash his dog, how much is left over?
6. Mercy makes 3 ℓ of fruit punch with lemonade, pineapple juice and Apple juice. She uses 450 mℓ of pineapple juice and 1.8 ℓ of lemonade. How many litres of apple juice are there in 3 of fruit punch?

Grade 6

Topic: Capacity/Volume

16 Marks

Student Name:

Exercise 11

Decimal Notation

$$\text{a. } 9\text{ml} = 0,009\text{l}$$

$$\text{b. } 56\text{ml} = 0,056\text{ l}$$

$$\text{c. } 185\text{ml} = 0,185\text{ l}$$

$$\text{d. } 4\,075\text{ ml} = 4,075\text{ l}$$

1. Write in litres

a. 7 ml

b. 69 ml

c. 875ml

d. 5 625 ml

2. Write in millilitres

a. 0,005l

b. 7,2 ml

c. 37,5l

d. 7,475l

3. To a half litre of painter added first 375ml of water then another 125ml  
How many litres was the mixture now?

4. A bucket contained 20l of water. 4,625l evaporated. How many litres  
of water were left in the bucket?

5. George carried 9l of water from the river to his home every day in  
August. How many litres of water is this?

6. 30 milk cans held 375,000litres of milk. How many litres did each  
can hold?

**Exercise 12**

**36 Marks**

**1.** Which kind of measure (litre or millilitre) would you use to measure the following things (liquids)?

(i) Milk in a glass

(ii) Medicine in a tea-spoon

(iii) Ink in your pen

(iv) Cough syrup in a bottle

(v) Petrol in a car tank

(vi) Water in a can

(vii) Kerosene oil in a jar

(viii) Paint in a drum

**2.** What measures will you use to measure the following quantities of given liquid? Write the answer in front of each liquid:

Quantity of liquid to measure	1 litre	500 ml	200 ml	100 ml	50 ml
(i) 950 ml of milk		1	2		1
(ii) 650 ml of water					
(iii) 5 litres of petrol					
(iv) 80 litres of petrol					
(v) 10 litres of diesel					
(vi) 5 l 100 ml of varnish					

8Save

**3.** How many 200 ml measures of water will fill a:

(i) 1 litre can?

(ii) 4 litre drum?

(iii) 2 litre can?

(iv) 1 litre 400 ml vessel?

4. A jar contains 1200 ml of milk. How many litres and ml of milk is in the jar?

5. How many 100 ml measures of oil will fill the following vessels?

(i) 200 ml of capacity

(ii) 500 ml of capacity

(iii) 700 ml of capacity

(iv) 1 l of capacity

6. Change the following into ml:

(i) 3 l

(ii) 2 l 75 ml

(iii) 5 l 390 ml

7. Change the following into litres and ml:

(i) 4000 ml

(ii) 65035 ml

(iii) 32570 ml

8. There was 5 l 500 ml of milk in my house. In the evening there was only 2 l 750 ml of milk left. How much milk was consumed during the day?

9. A petrol pump had 15900 litres of petrol in stock. During the day 5,950 litres were sold. How much petrol was left?



**10.** There is the following quantity of water in three vessels:

(i) 54 l 80 ml

(ii) 67 l 384 ml and

(iii) 56 l 156 ml

Find the total quantity of water.

**11.** A bucket holds 25 litre of water. 17 litres 250 ml of it was taken out and then 3 litre 780 ml was poured in it. How much water is there in the bucket now?







**12.** A bottle has the capacity to contain 250 ml. How much oil can be filled in 20 such bottles?

**13.** Among 40 students, 20 litres of juice was distributed. How much juice did each student get?

**14.** The capacity of a drum is 200 litres. It contains 123 litres of water. How much more water is required to fill it?

**15.** Out of 350 litres of kerosene oil, 125 l 50 ml was sold. How much is left now?

1.

January	February	March	April	May	<input type="checkbox"/>
					

Tom's Take away

a. How many litres of oil did Tom's Take away use from January to May?

b. Tom's take away used 400l of oil in the first 6 months of the year.  
How much oil was used in the month of June?

c. Oil costs R18,50 per litre. How much did Tom pay for the 400l ?

2. Every day, Miss Feni uses:

60l of water to bath

6l of water to wash dishes

2,5l of water for cooking

1,5l of water for drinking.

How much water does Miss Feni use in the month of June?



3. The ladies at the soup kitchen make 9l of soup. 1 cup holds 250ml of soup. How many people can have a cup of soup?

4. Pancake recipe for 10 pancakes:

250ml flour

125ml milk

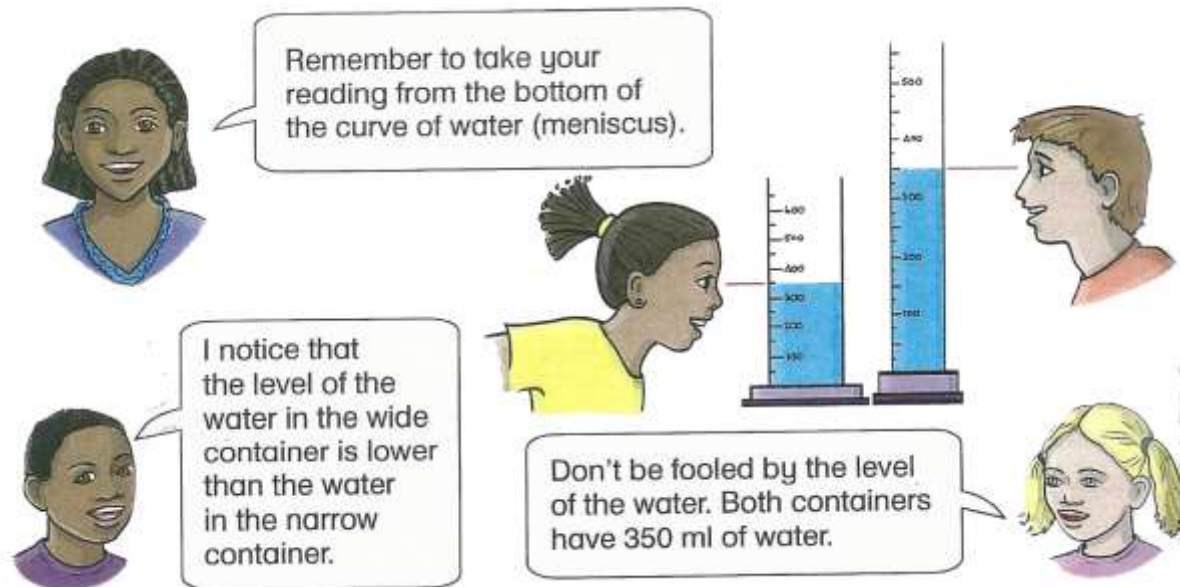
150ml warm water

1 egg

10ml oil

5ml baking powder

Write the ingredients you would need to make 60 pancakes for the class party.



1. Write the correct capacity for each container.  
Secondly, round off each reading to the nearest 100ml

