

## YEAR 3 MATHS

UNITS	PROGRESSION TEST 3
Unit 9	Fractions
Unit 11	Time
Unit 12	Angles and properties of shapes
Unit 13	Mass
Unit 14	Capacity

### UNIT 9 – FRACTIONS

**A. Write the fraction for the following:**

1. —

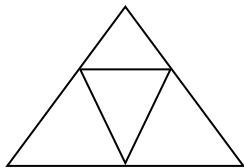


2. —

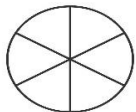


**B. Shade the fraction for the given figures.**

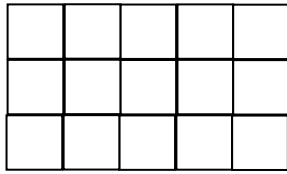
1.  $\frac{1}{4}$



2.  $\frac{3}{6}$



3.  $\frac{5}{15}$



**C. Write the equivalent fractions for the following.**

1.  $\frac{4}{10} = \underline{\quad}$

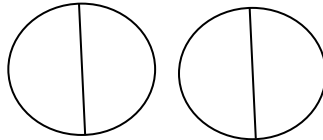
2.  $\frac{3}{12} = \underline{\quad}$

3.  $\frac{3}{6} = \underline{\quad}$

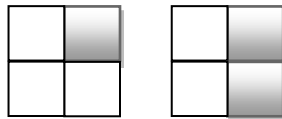
4.  $\frac{5}{10} = \underline{\quad}$

**D. Compare the fraction with > or < or =.**

1.  $\frac{1}{2}$  ○  $\frac{1}{2}$



2.  $\frac{1}{4}$  ○  $\frac{2}{4}$



**E. Add and subtract the following fractions:**

1.  $\frac{2}{9} + \frac{3}{9} = \underline{\quad}$

$$2. \frac{1}{4} + \frac{2}{4} = \underline{\quad}$$

$$3. \frac{3}{10} + \frac{5}{10} = \underline{\quad}$$

$$4. \frac{7}{9} + \frac{1}{9} = \underline{\quad}$$

$$5. \frac{5}{16} + \frac{4}{16} = \underline{\quad}$$

$$6. \frac{9}{12} + \frac{1}{12} = \underline{\quad}$$

**F. Write numerator and denominator for the following:**

	Numerator	Denominator
1. 7/15	_____	_____
2. 15/11	_____	_____
3. 24/25	_____	_____
4. 1/7	_____	_____

**G. Sort out proper and improper fractions:**

$\frac{7}{8}$     $\frac{15}{16}$     $\frac{15}{8}$     $\frac{8}{5}$     $\frac{9}{28}$     $\frac{6}{5}$     $\frac{45}{47}$     $\frac{47}{38}$

Proper:

Improper:

**H. Fill in the blanks:**

1. We divide something into 2 equal parts is called \_\_\_\_\_.
  2.  $\frac{1}{4}$  is written in words as \_\_\_\_\_.
  3.  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$  are \_\_\_\_\_ fractions.
  4.  $3\frac{1}{4}$ ,  $5\frac{2}{3}$  are \_\_\_\_\_ fractions.
- 

**UNIT 11 – TIME**

**A. What time is shown on following analogue clocks:**



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_

**B. What time is shown on following digital clocks:**

23 : 30

\_\_\_\_\_

18 : 55

\_\_\_\_\_

24 : 00

\_\_\_\_\_

**C. Identify the time:**



Quarter to 7



Quarter to 8



Half past 2

**D. Fill in the blanks:**

1. 60 \_\_\_\_\_ = 1 hour.
2. \_\_\_\_\_ seconds = 1 minute.
3. 12 \_\_\_\_\_ = 1 year.
4. 7 \_\_\_\_\_ = 1 week.
5. 365 days = \_\_\_\_\_ year.
6. 2 days = \_\_\_\_\_ hours.

7.  $\frac{1}{2}$  day = \_\_\_\_\_ hours.

8. Leap year = \_\_\_\_\_ days.

9. February has \_\_\_\_\_ days.

**E. Months with 31 days**

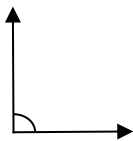
**Months with 30 days**

31 days	30 days
Jan _____	Ap _____
Mar ____	Ju ____
M_y	Sep _____
J_ly	Nov _____
Aug ____	
Oct _____	
Dec _____	

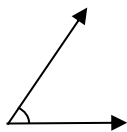
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## UNIT 12 – ANGLES AND PROPERTIES OF SHAPES

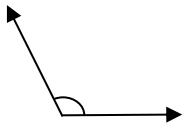
**A. Angles.**



= \_\_\_\_\_ is exactly \_\_\_\_\_



= \_\_\_\_\_ is \_\_\_\_\_ than  
\_\_\_\_\_



= \_\_\_\_\_ is \_\_\_\_\_ than  
\_\_\_\_\_

**B. Identify the types of lines:**

1



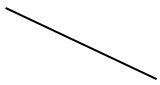
\_\_\_\_\_

2



\_\_\_\_\_

3



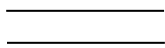
\_\_\_\_\_

4



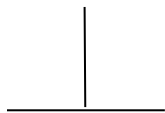
\_\_\_\_\_

5



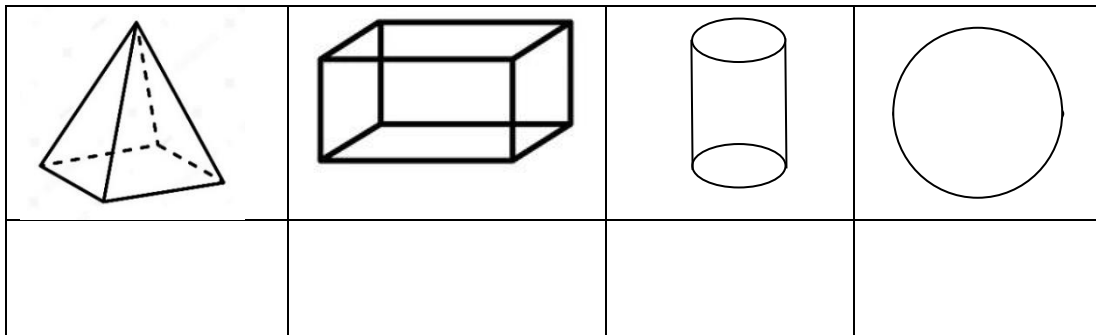
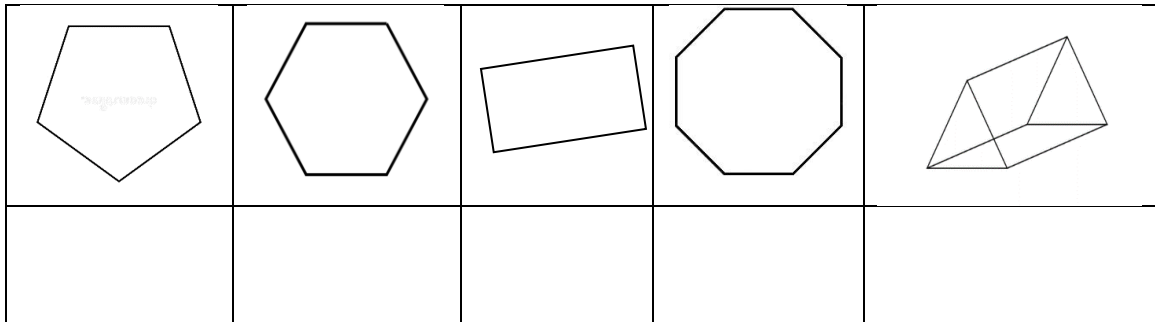
\_\_\_\_\_

6



\_\_\_\_\_

**C. Identify the shapes and write their names:**



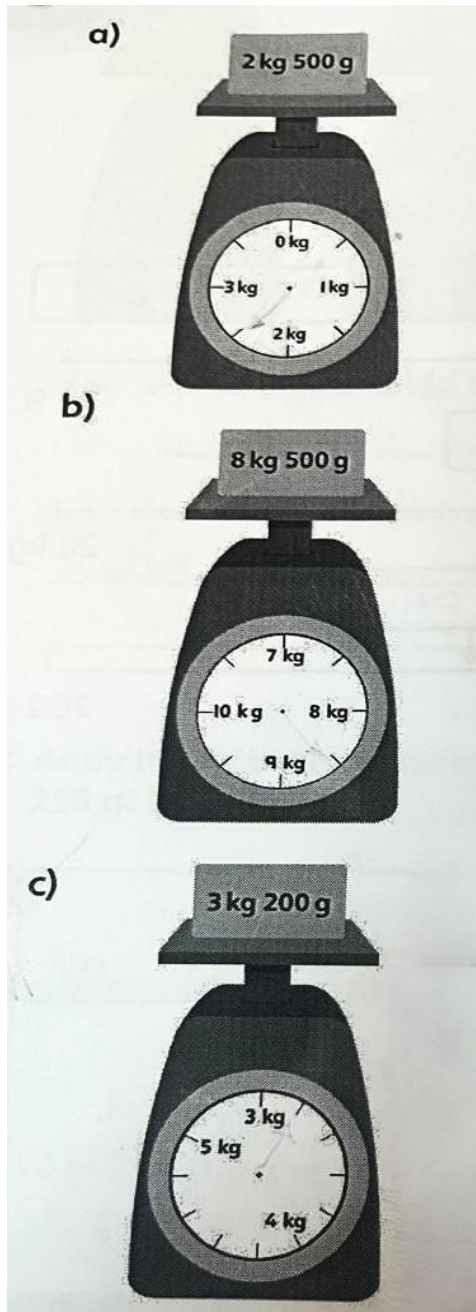
**D. Fill in the blanks:**

1. There are \_\_\_\_\_ lines of symmetry in rectangle.
2. There are \_\_\_\_\_ lines of symmetry in square.
3. There are \_\_\_\_\_ lines of symmetry in triangle.
4. A circle has \_\_\_\_\_  $^{\circ}$ .
5. A reflex angle is \_\_\_\_\_  $180^{\circ}$  and \_\_\_\_\_  $360^{\circ}$ .
6. Straight line is exactly \_\_\_\_\_  $^{\circ}$ .



## Unit 13-Mass:

A. Draw the pointer to correct place on each measuring scale.



## Comparing masses

1 Use <, > and = to compare these amounts.

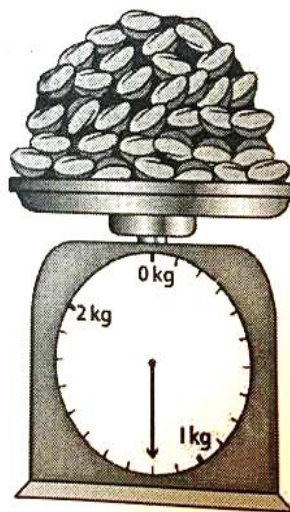
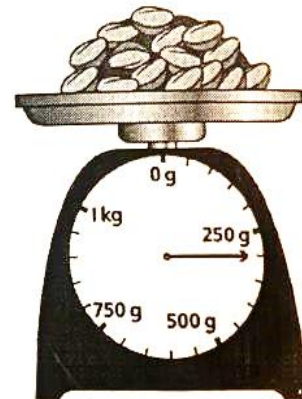
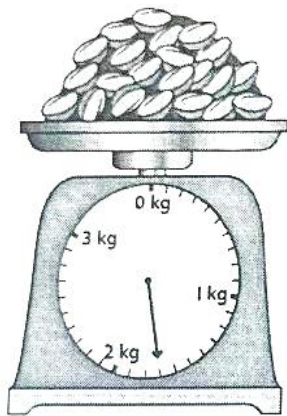
a) 1,321 g ○ 1 kg 300 g

b) 1 kg 8 g ○ 1,080 g

c) 2 kg 10 g ○ 2,010 g

d) 983 g ○ 0 kg 899 g

2 Circle the scale with the lightest weight of nuts on it.



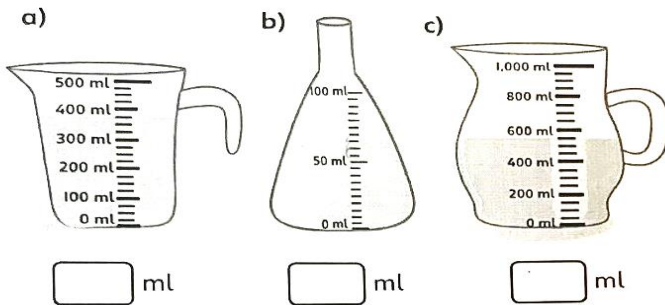
### 3. Fill in the blanks:

1. Your weight is close to \_\_\_\_\_.
2. 1 kilogram = \_\_\_\_\_ grams.
3. 2 kgs = \_\_\_\_\_ g.
4. 7000 g = \_\_\_\_\_ kg.
5. 5kg 345g = \_\_\_\_\_ g.

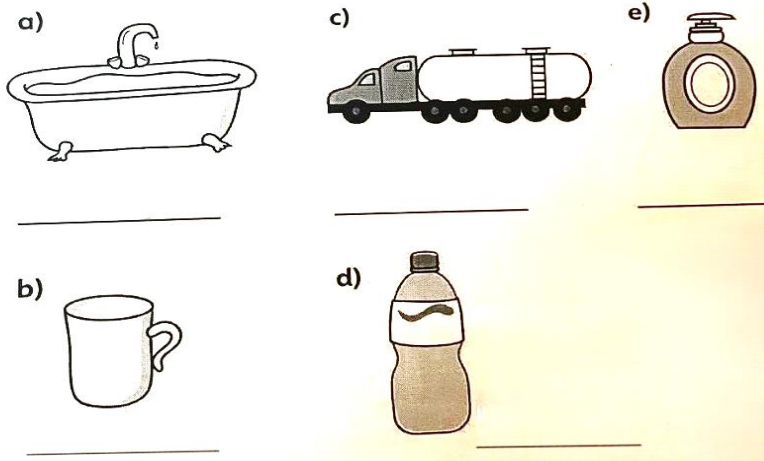
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## UNIT 14 – CAPACITY

1 Record how much liquid there is in each container.



2 Which measure would you use? Write millilitres or litres under each item.



**1** a) Write the amounts in l and ml.



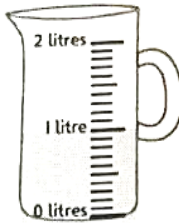
l  ml



l  ml



l  ml



l  ml

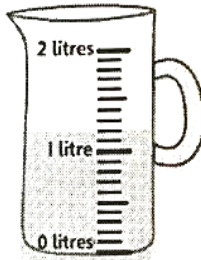
b) How much is in each jug?



l

ml

=  ml



l

ml

=  ml



l

ml

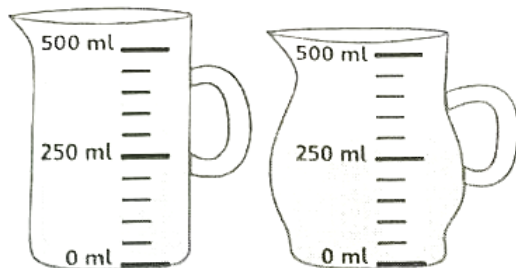
=  ml

I wonder if 1 l = 1,000 ml will help me to answer this question.



# Adding and subtracting capacities

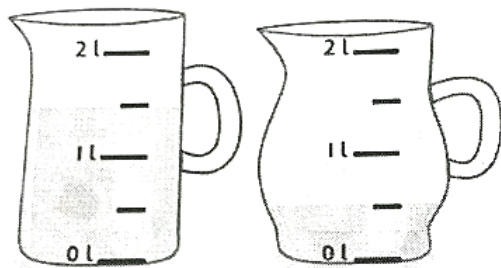
**i** a) What is the total of these two amounts?



$$\begin{array}{r}
 \text{H T O} \\
 450 \\
 + 300 \\
 \hline
 \\
 \hline
 \end{array}$$

The total of the two amounts is  ml.

b) What is the total of these two amounts?



1 l 500 ml	500 ml
1 l	500 ml
<input type="text"/> l	

The total of the two amounts is  l.

c) What is the total of 3 l 250 ml + 2 l 425 ml?



I will try adding the litres and millilitres separately.



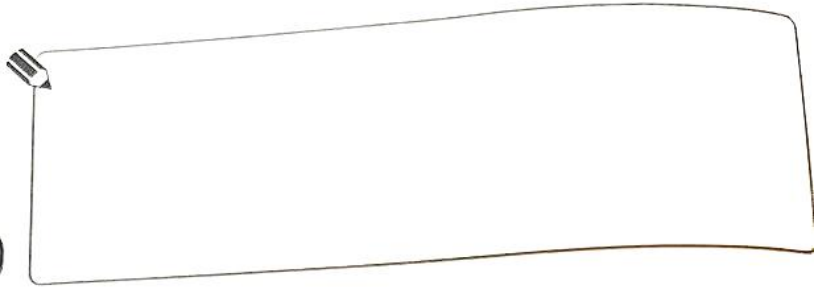


- 2 The cup has been filled from the bottle. How much liquid is left in the bottle?



2 l

250 ml



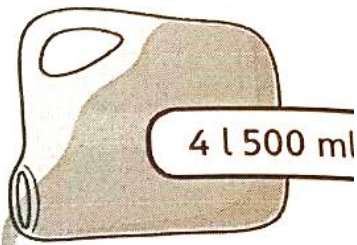
There is  l  ml left in the bottle.

- 3 How much will be left in the large container?

$$4 \text{ l} - 1 \text{ l} = \boxed{\phantom{00}}$$

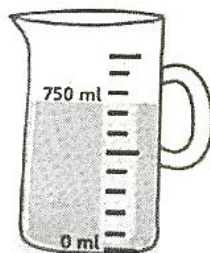
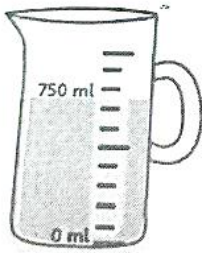
H	T	O	
5	0	0	ml
-	1	5	0 ml

1 l 150 ml



There will be  l  ml left in the large container.

- 4 James needs 3 l of water. He has two jugs with 750 ml in each. How **much** more water does he need?



I wonder if a bar model or a number line would help.



James needs  l  ml more water.

**KEYS:**  
**UNIT 9 – FRACTIONS**

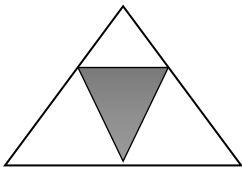
**A.**

1.  $\frac{2}{5}$

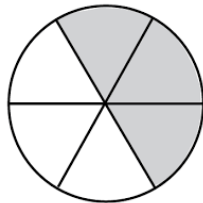
2.  $\frac{1}{2}$

**B.**

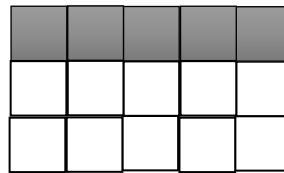
1.



2.



3.



**C.**

1.  $\frac{2}{5}$

2.  $\frac{1}{4}$

3.  $\frac{1}{2}$

4.  $\frac{1}{2}$

**D.**

1.  $\frac{1}{2} \quad \bigcirc = \quad \frac{1}{2}$

2.  $\frac{1}{4} \quad \bigcirc < \quad \frac{2}{4}$

**E.**

1.  $\frac{5}{9}$

2.  $\frac{3}{4}$

3.  $\frac{8}{10}$

4.  $\frac{8}{9}$

5.  $\frac{9}{16}$

6.  $\frac{10}{12}$

**F.**

Numerator

Denominator

7

15

15

11

24

25

1

7

**G.**

Proper:  $\frac{7}{8}$  ,  $\frac{9}{28}$  ,  $\frac{15}{16}$  ,  $\frac{45}{47}$

Improper:  $\frac{8}{5}$  ,  $\frac{6}{5}$  ,  $\frac{15}{8}$  ,  $\frac{47}{38}$

**H.**

1. One – half
2. One – fourth
3. Unit
4. Mixed

Types of fractions	Definition	Example
Unit fractions	Fractions with numerator 1 .	$\frac{1}{7}$
Proper Fractions	Fractions in which the numerator is less than the denominator.	$\frac{2}{7}$
Improper Fractions	Fractions in which the numerator is more than or equal to the denominator.	$\frac{5}{3}$
Mixed Fractions	Mixed fractions consist of a whole number along with a proper fraction.	$8\frac{2}{3}$
Like Fractions	Fractions with the same denominators.	$\frac{1}{4}$ and $\frac{3}{4}$
Unlike Fractions	Fractions with different denominators.	$\frac{1}{3}$ and $\frac{3}{4}$
Equivalent Fractions	Fractions that have the same value after being simplified or reduced.	$\frac{6}{4}$ and $\frac{12}{8}$



## UNIT 11 – TIME

**A.**

1. 10:05      2. 6:25      3. 9:30

**B.**

1. 11:30      2. 7:55      3. 12:00

**C.**



Quarter to 7

Quarter to 8

Half past 2

**D.**

1. Minutes
2. 60
3. Months
4. Days
5. 1
6. 48
7. 12
8. 366
9. 28

**E.**

<b>Months with 31 days</b>	<b>Months with 30 days</b>
January	April
March	June
May	September
July	November
August	
October	
December	

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

**Digital and Analog Clock**

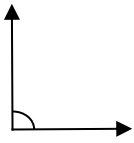
Hourly: S1

Match the digital clock and analog clock that shows the same time.

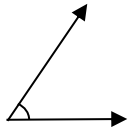


## UNIT 12 – ANGLES AND PROPERTIES OF SHAPES

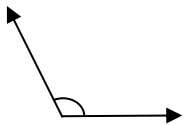
**A.**



= Right angle is exactly 90°



= Acute angle is less than 90°



= Obtuse angle is greater than 90°

**B.**

1



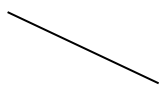
Neither

2



Horizontal

3



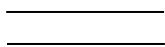
Neither

4



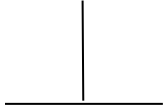
Vertical

5



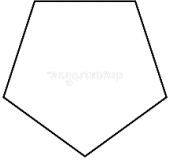
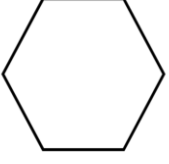
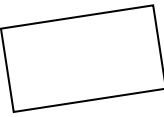
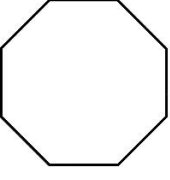
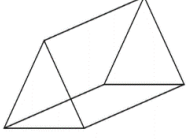
Parallel

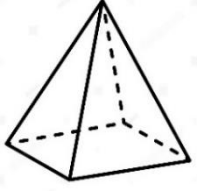
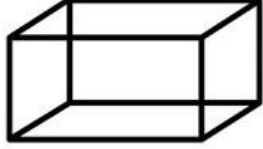
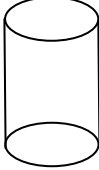
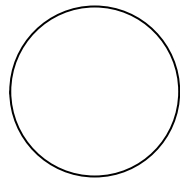
6



Perpendicular

C.

				
Pentagon	Hexagon	Rectangle	Octagon	Triangular Prism

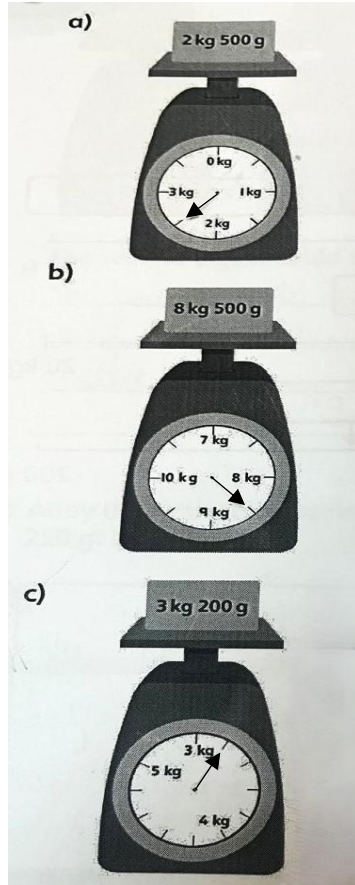
			
Pyramid	Cuboid	Cylinder	Sphere

D.

1. 2
2. 4
3. 1
4. 360°
5. Greater than 180°  
and  
Less than 360°
6. 180°

**UNIT 13 – MASS**

A.



1.

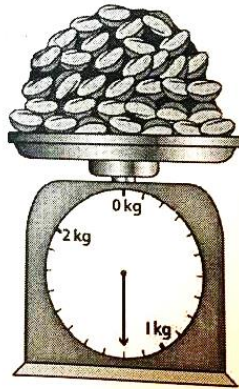
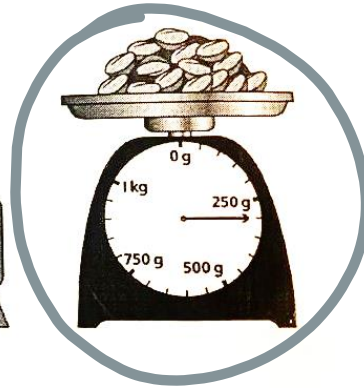
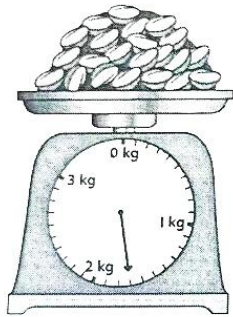
a)  >

b)  <

c)  =

d)  >

2.



3.

1. Kg
2. 1000
3. 200
4. 7
5. 5345

## UNIT 14 – CAPACITY

### Measuring Capacity 1

1.

- a) 375 ml
- b) 60 ml
- c) 550 ml

2.

- |                |                          |           |
|----------------|--------------------------|-----------|
| a) Litres      | c) Litres                | e) Litres |
| b) Millilitres | d) Litres or Millilitres |           |

## Measuring Capacity 2

A.

1L 700mL      1L 500mL  
0L 500mL      1L 0mL

B.

1L                  1L                  1L  
900mL          200mL          700mL  
  
=1900mL      1200mL      1700mL

## Adding and subtracting capacities

1.

A.

H	T	O
4	5	0
3	0	0
-----		
7	5	0
-----		

mL

B.

L

C.

3L	250mL
+2L	425mL
-----	
5L	675mL
-----	

2. 2L    200 mL

	2000 mL
-	250 mL
	-----
	1750 mL
	-----



L     mL

3.  $4\text{L} - 1\text{L} =$  L

	H	T	O
	5	0	0
-	1	5	0
	-----		
	3	5	0
	-----		

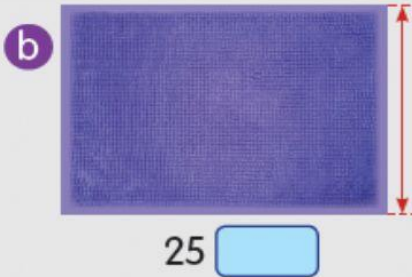
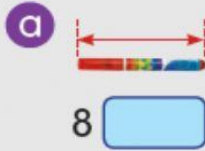
L     mL

4.  L     mL

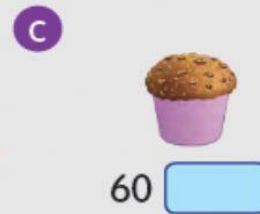
Name: \_\_\_\_\_  
Length, Mass and Volume Of Liquid.

Class: \_\_\_\_\_

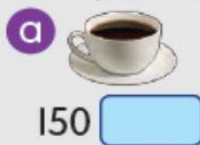
1 State the most suitable unit of length, cm or m.



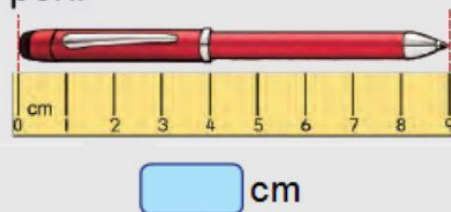
2 State a suitable mass unit, g or kg.



3 State a suitable volume unit, ml or l.



4 State the length of the pen.



5 What is the mass?



6 What is the volume?

