PRIMARY THREE TERM THREE MATHEMATICS

THEME: HEALTH IN OUR SUB COUNTY/DIVISION
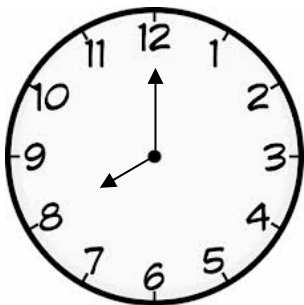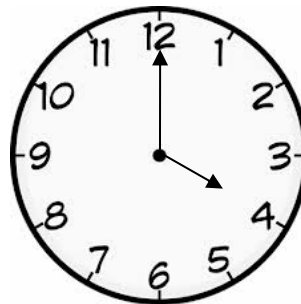**SUBTHEME: MEASURES (TIME)**

TELLING TIME IN HOURS

- We tell tine in hours and minutes

- 1 hour = 60 minutes

- A long hand tells minutes and a short hand tells hours

Examples

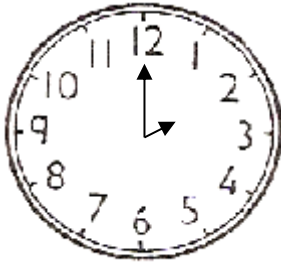What is the time?

It is 8 0'clock   it is 4 o'clock
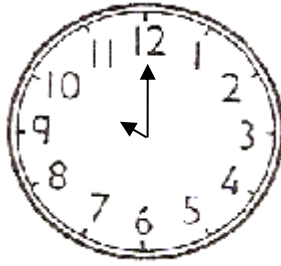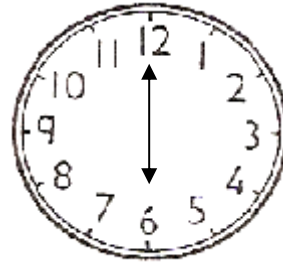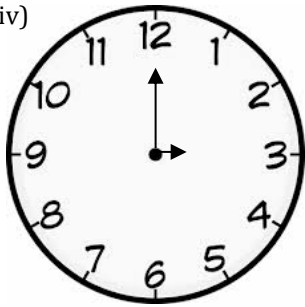
Exercise

Tell the time

(i)　　　　　　　　　　　(ii)　　　　　　　　　　　(iii)

_____　　　_____　　　_____

(iv)　　　　　　　　　　　(v)　　　　　　　　　　　(vi)

_____　　_____　　_____

(vii)　　　　　　　　　　　(viii)　　　　　　　　　　　(ix)

_____　　　_____　　　_____
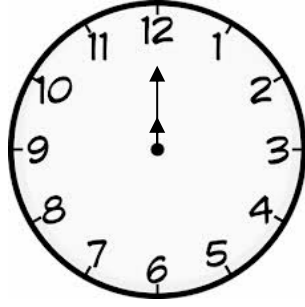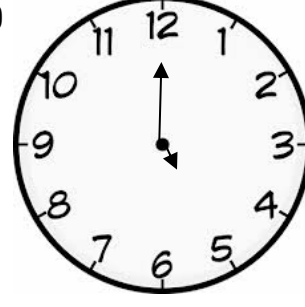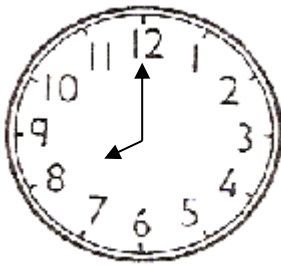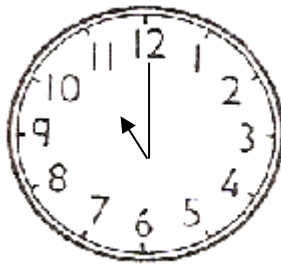
(x)

_____
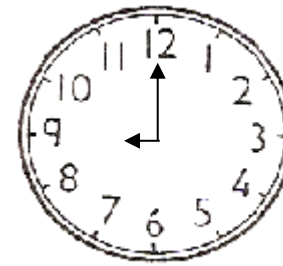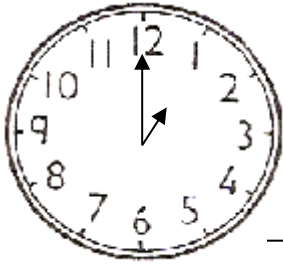
Telling time in hours and minutes (a half past)

Examples when the long hand (minute hand) reaches 6, we say that it is half past. The short hand will then point between two numbers.
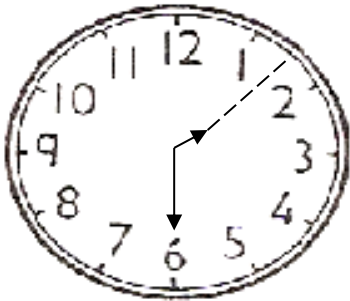
It is a half past 1 o'clock
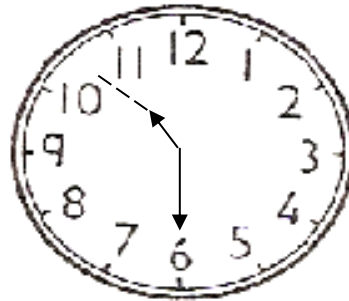
It is a half past 11 o'clock

Exercise

1.   2.   3.
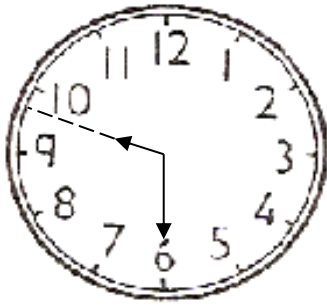
_____
5.
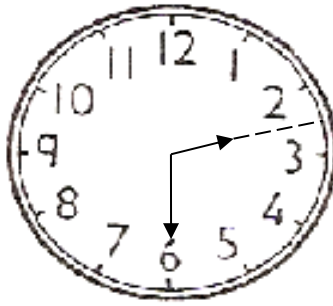
_____
6.
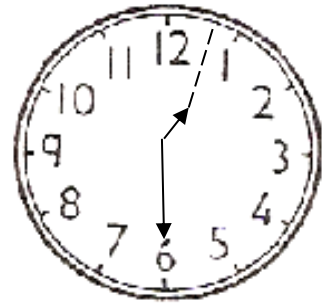
_____
7.
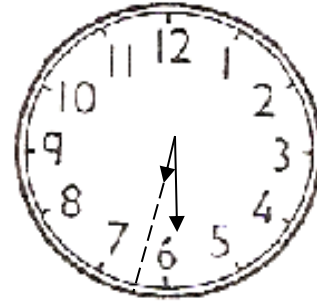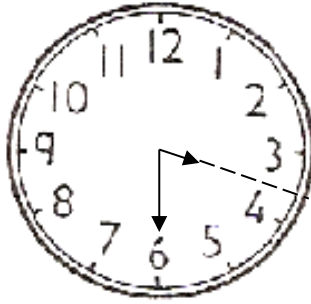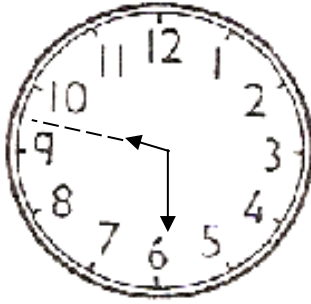
_____
8.

_____

_____

_____
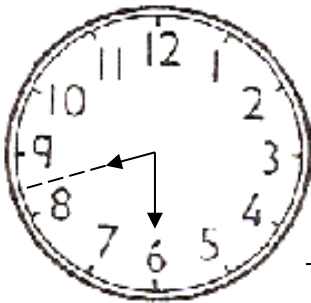
Telling time in a quarter past

- When the minute had points to 3 we say quarter past or 15 minutes past the hour.

Examples
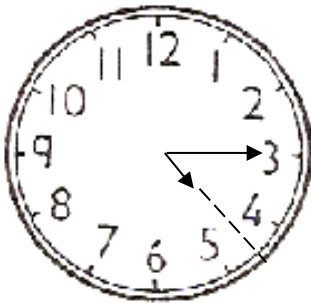
It is a quarter past 4 o'clock.
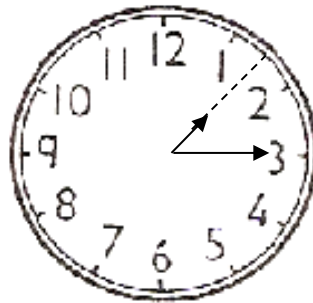
It is a quarter past 1 o'clock.
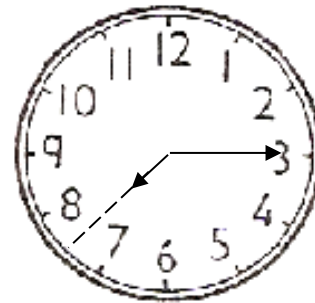
It is a quarter past 7

Exercise
What is the time?

_____

_____

_____

_____

_____

_____

_____

_____
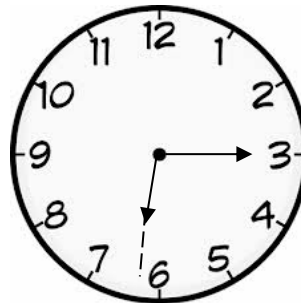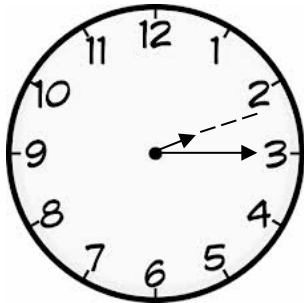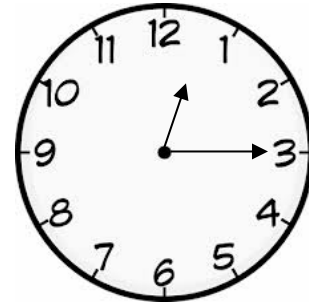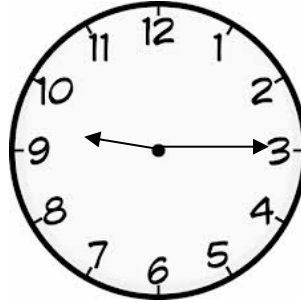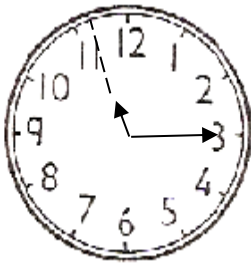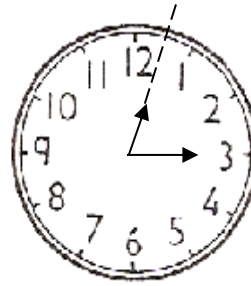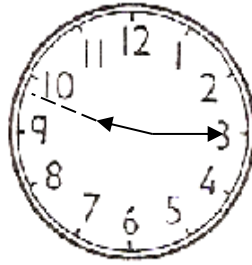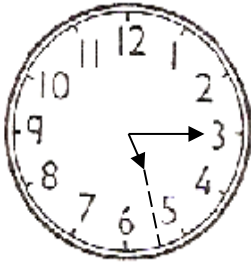
Using a quarter to

- The time after half past any hour can be told using to.
- When the minute hand points to 9. We say 15 minutes to or a quarter to the next hours.

Examples
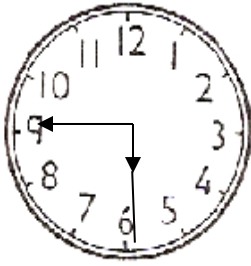
It is a quarter to 6 o'clock
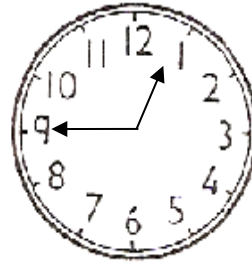
It is a quarter to 1 o'clock.

It is a quarter t0 3 o'clock

It is a quarter to 11 o'clock

Showing Time on the Clock Faces

Examples
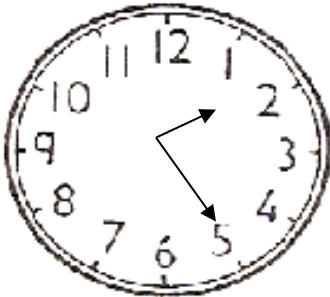
It is 25 minutes past 1 o'clock
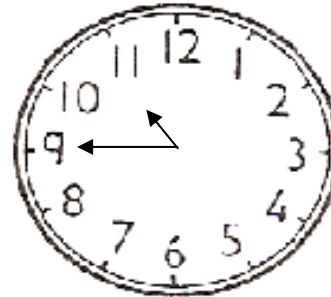
It is 35 minutes past 11 o'clock
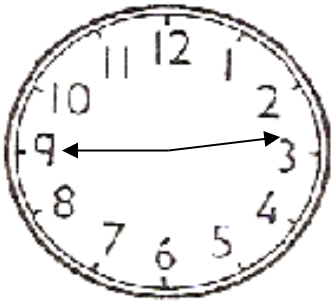
It is a quarter to 3 o'clock

Exercise

Show the time on the clock faces below.

It is a half past three   It is 7 o'clock   It twelve o'clock
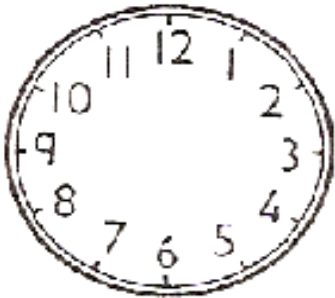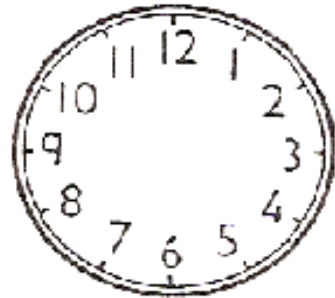
It is a quarter past ten o'clock   it is a quarter past six   it is six o'clock
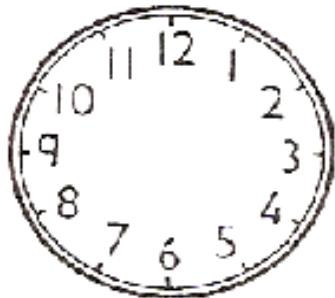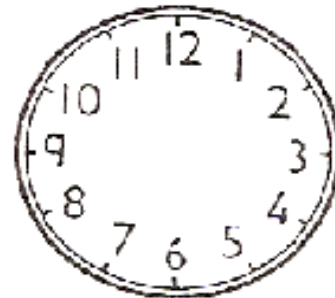
It is twenty five minutes past eight o'clock

More about time

- We tell time in hours, minutes, seconds, days, weeks, months, years.
- We also need to know about the calendar.

NB: There are 60 minutes in 1 hour

Therefore 60 min   =   1 hour

-There are 24 hours in a day.

Examples

1. How many hours are in 2 days
      1 day = 24 hours
      2 days = 24 x 2
            = 48 hours

More about time

24 hours = 1 day

7 days = 1 week

4 weeks = 1 month

12 months = 1 year

52 weeks = 1 year

365/366 days = 1 year

Days of the week

- 7 days make a week.

These are Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, and Saturday

October 2012

Sun	Mon	Tue	Wed	Thurs.	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19

20	21	22	23	24	25	26
27	28	29	30			

Questions

1. What is the first day of the week?

2. What is the fourth day of the week?

3. What is the last day of the week?

4. How many days are in 2 weeks?

5. Write down the days of the week with letter T.

6. What is the second day of the week?

7. How many days are in 7 weeks?

8. Complete the table.

Weeks	1	2	3	4	_____	_____	6
Days	7	14	__	__	35	49	__

Exercise

1. What day is the first in the month of October?

2. How many Saturdays are in the month?

3. What do we celebrate on 9th October every year?

4. On what day did the month of September end?

5. How many Wednesdays are in the month of October?

6. What day will be 22nd October?

Addition of days and weeks

Examples

1.
```
   Wks        days
    3          2
 + 2          2
 _____
    5          4
 _____
```

```
   Wks        days
    3          0
 + 4          5
 _____
    7          5
 _____
```

Exercise

Add these correctly

1.
```
   Wks        days
    2          5
 + 4          1
 _____
```

```
 + 3          2
 _____
```

3.
```
   Wks        days
    1          4
 + 4          1
 _____

 _____
```

2.
```
   Wks        days
    8          3
```

4. Wks   days   +   3   0
    10   6   _____

5. Wks   days   6. Wks   days
    1   2   2   4
+   2   2   + 3   0
                                        _____

Subtraction of days and weeks

Examples

1. Wks   days   2. Wks   days   3. Wks   days
    6   4   8   3   7   6
-   2   4   - 4   2   - 2   5
_____   _____   _____
    4   0   4   1   5   2

Exercise

Subtract the following correctly

1. Wks   days   2. Wks   days   3. Wks   days
    5   5   8   3   10   6
-   2   4   - 5   0   - 5   3
_____   _____   _____

4. Wks days   5. Wks   days   6. Wks   days
   12   8   7   3   15   7
- 4   5   - 4   2   - 12   5
_____   _____   _____

7. Wks   days   8. Wks   days   9. Wks   days
   20   8   9   5   17   4
- 14   6   - 3   4   - 5   4
_____   _____   _____

10.
```
  Wks        days
   6          2
-  4          1
  _____
```

The calendar

There are 12 months in a year.

These are January, February, March, April, May, June, July, August, September, October, November, December, (**365 days make a year**).

Questions

1. The months of the year are;

January, February, _____, April, _____, _____, July, _____, _____, _____, November, _____

2. What is the first month of the year?
3. What is the 3rd month of the year?
4. What is the 6th month of the year?
5. What is the 9th month of the year?
6. Write down the months which are in the first half of the year?
7. What is the last month of the year?
8. Write the names of the months which start with letter J.
9. How many months are there in two years?
10. What is the 8th month of the year?

More about calendars

Examples

1. Mike was born in 1989. How old was he in 1997?

   Present year   = 1997

   Year of birth = - 1989
   _____
   08 years
   _____

2. Tom was born in 1995. How old is he now?

```
   2012
-  1995
_____
   17 years old
_____
```

Exercise

1. Kato is 10years old now. How old was he in 2007?
2. Alice was born in 1988. How old was Alice in 1996?
3. Mayanja was 15years in 2010, how old will he be in 2018?

4. Oulanya was born in 1998. How old is he now?

5. Joy was born in 2000. How old was she in 2008?

6. Mary was born in 2009 and john was born in 1999, of the two who is older? How old are they?

THEME: CULTURE AND GENDER IN OUR SUB-COUNTY / DIVISION

SUBTHEME: CUSTOM IN OUR SUB-COUNTY / DIVISION

Collecting like terms

Examples

1 Simplify the following

   a)   2 books + 4 PENCILS + 3 PENCILS + 2 books.

   Soln.

   2books + 2 books + 4 pencils +3 pencils

   = 4 books + 7 pencils

Evaluation:

Solve the following by collecting the like terms.

   1.   3 mangoes + 3 eggs + 4 mangoes + 3 eggs.

```
     Mangoes        eggs
        3              3
     + 4              3
        7              6
```

   Or

   3 mangoes + 4 mangoes + 3 eggs + 3 eggs

   = 7 mangoes   + 6 eggs.

2. Collecting like terms involving unknowns.

a. $a + b + a + b$

                  $= a + a + b + b$

                  $= 2a + 2b$

b. $2r + 3t + r + 2t + 2r$

$$= 2r + r + 2r + 3t + 2t$$

$$= 3r + 2r + 3t + 2t$$

$$= 5r + 5t$$

Finding the missing numbers involving addition.

Example:
$$\boxed{} + 3 = 6$$

$$\boxed{} + 3 - 3 = 6 - 3$$

$$\boxed{} + 0 = 3$$

$$3 \quad + 3 = 6$$

Evaluation: New Mk p/s Bk 3 pg. 193

Word problems involving finding the missing numbers.

Example: Kato had some hens. He was given 10 more hens.
He now has 15 hens. How many hens had Kato at first?

If Kato had $\boxed{}$ hens.

Then $\boxed{} + 10 = 15$

$\boxed{} + 10 - 10 = 15 - 10$

$\boxed{} + 0 = 5$

$\boxed{} = 5$

Kato had 5 hens at first.

Finding the missing numbers.

a. __ + 1 = 7

b. __ + 1 - 1 = 7 - 1

c. __ + 0 = 6

d. __ = 6

e. 1 + <u>6</u> = 7

Evaluation: New Mk p/s bk 3 pg 193.

Word problems involving missing numbers.

Examples: There were 32 pupils in our class. More pupils joined us. Now we are 44.
How many pupils joined us?
If ___ pupils joined us.

Then, 32 + __ = 44

__ + 32 = 44

__ + 32 - 32 = 44 – 32

__ + 0 = 12

Therefore; 12 more pupils joined us.

Evaluation: New mk pupils bk 3 pg 193.

Finding the missing numbers involving subtraction.
Examples: __ - 5 = 3

        __ - 5 + 5 = 3 + 5

        __ - 0 = 8

        _ = 8

        Therefore, 8 - 5 = 3

Example 2

     _ - 2 = 1

     _ - 2 + 2 = 1 + 2

     _ - 0 = 3

     _ = 3

     Therefore, 3 - 2 = 1

Evaluation: New Mk bk on 3 pg. 194

Word problems involving missing number.
Example: Father had some books. He gave me 5 books and he remained with 7 books.
      How many books did he have at first?
If father had ____ books at first.

Then, __ - 5 = 7

      __ = 7 + 5

      __ = 12 books

Therefore father had 12 books at first.
Evaluation: New mk p/s bk 3pg. 195

More about Finding missing numbers.
Examples: 6 - __ = 3   2.   4 - __ = 4

        ___ = 6 - 3   __ = 4 - 4

        ___ = 3   __ = 0

There fore , 6 - 3 = 3   Therefore   4 - 0 = 4

More about Finding missing numbers in multiplication.
Examples: 1)   __ x 2 = 8   2)   __ x 3 = 12

        __ = 8 ÷ 2   __   = 12 ÷ 3

        __ = 4   ___ = 4

Therefore,   4 x 2 = 8   Therefore, 4 x 3 = 12

Evaluation: New Mk Bk 3 pg. 196.

Lesson 46: Finding missing numbers in division.
Example: 6 ÷ __ = 3
        __ = 6 ÷ 3

$$\underline{\quad} = 2$$

Therefore   6 ÷ <u>2</u> = 3

More about missing numbers in division.

Examples: ___ ÷ 2 = 9   2.   ___ ÷ 4 = 4

             ___   = 9 x 2   ___ = 4 x 4

             ___   = 18   ___ = 16

     Therefore   18 ÷ 2 = 9   <u>16</u> ÷ 4 = 4

Evaluation: New Mk p/s bk 7   pg 197.

Word applications on finding unknowns

Example: Auma had some bananas. She shared them among 6 boys. Each boy got 8 bananas. How many bananas did Auma have before?

    If Auma had ____ bananas before

    Then, __ ÷ 6 = 8

        ___   = 8 x 6

       ___ =   48

        ___ ÷ 6 = 8

Therefore Auma had 48 bananas before

Evaluation: New Mk p/s bk 3, pg 198

Measures: length

Measuring length is about measuring distance.

-    A centimeter ruler is smaller than a metre ruler

Addition of metres and centimetres

Examples

1. m	cm		2. m	m		3. m	cm
2	45		8	15		3	19
+ 6	36		+ 6	75		+ 24	24

Exercise

Add in metres and centimetres

1. m	cm		2. m	cm		3. m	cm
4	25		7	25		3	42
+ 4	10		+ 3	16		+ 4	17

4. m	cm		5. m	cm		6. m	m
5	35		4	45		8	35
+ 1	12		+ 7	36		+ 2	49

7. m	cm		8. m	cm		9. m	cm
10	17		3	40		16	10
+ 14	20		+ 4	17		+ 6	30

10. m	cm		11. m	cm		12. m	cm
13	47		10	47		25	24
+ 9	17		+ 9	24		+ 12	16

ADD METRES AND CENTIMETRES IN WORD PROBLEMS

Examples

1. The length of our blackboard is 1m 35cm. the length of the P.3 class blackboard is 2m 10cm. find the length of the two blackboards.

	m	cm
Our blackboard =	1	35
P.3 blackboard =	+ 2	10

2. The length of Omonya's garden is 40m 27cm. Akite's garden is 5cm 46cm. find the total length of the 2 garden.

		m	cm
Omonya's garden	=	40	27
Akites garden	+	5	46
		45	73

Exercise

1. Musa's sugarcane is 1m 15cm. ali's sugarcane is 1m 26cm. find the length of the two pieces of sugarcane?
2. Namale's mat is 2m 57cm long and Nakato's mat is 3m 36cm long. Find the total length of the two mats.
3. Amina is 1m 25cm tall and Cissy is 1m 8cm tall. Find the total height of the two gilrs.
4. Asaba's rope is 2m 56cm long, and Mugisha's rope is 3m 34cm. find the total length of the 2 ropes.
5. A shopkeeper hands 4m 38cm of Nylon cloth and 6m 30cm of cotton cloth. What is the total length of the pieces of cloth?

SUBTRACTION OF METRES AND CENTIMETRES

Examples

1. m	cm	2. m	cm	3. m	cm
6	40	7	75	29	45
- 3	10	- 4	38	- 18	18

Exercise

Subtract in metres and centimetres

1. m	cm	2. m	cm	3. m	cm
7	15	4	60	19	74
- 6	13	- 4	38	- 18	18

Word applications involving subtraction of weight in kg and g

Examples

1. Nagujja had 8kg 300g of beans. She gave 2kg 100g of beans to grandmother. Find the amount of beans she remained with?

	kg	g
	8	500
-	2	100
	6	400

2. Ladiyo had 25kg 700g of ground nuts. he sold 20kg 250g. What amount of ground nuts did he remain with?

	kg	g
	25	700
-	20	250
	5	450

Activity

1. Nannon had 5kg 750g of slat. She gave 3kg 250g to her mother. How much salt did she remain with?
2. Ssali had 12kg 500g of tomatoes. he sold 8kg 250kg. Find the amount of tomatoes he remained with?
3. Adyeri was given 22kg 900g of ghee. She sold 19kg 250g. How much ghee remained?
4. Tumukunde made 33kg 750g of millet flour. he cooked 15kg 150g of it. How much millet flour was left?
5. Akut had 45kg 500g of simsim. She gave 23kg 170g to her daughter. Find the amount of simsim she was left with?
6. Nansubuga weighs 18kg 700g and her brother weighs 24kg 250g. Find the difference between their weights?

LENGTH

Addition of lengths in cm and m

Examples

	m	cm
	2	45
+	6	36
	8	81

	m	cm
	8	15
+	6	75
	14	90

	m	cm
	13	29
+	9	17
	22	46

	m	cm
	4	45
+	7	36
	11	81

Activity

Add these metres and centimetres

	m	cm
	3	42
+	4	17

	m	cm
	16	10
+6		30

	m	cm
	4	25
+	4	20

	m	cm
	24	20
+	19	15

		m	cm
		3	40
+		4	17

		m	cm
		3	19
+	2	4	24

Subtraction of lengths

Examples

m	cm
6	40
- 3	10
3	30

m	cm
7	75
- 4	38
3	37

m	cm
27	45
- 14	29
13	16

m	cm
4	80
- 3	24
1	56

Activity

Subtract these metres and centimetres

m	cm
7	15
- 6	13

m	cm
10	25
- 7	16

m	cm
6	50
- 4	30

m	cm
2	46
- 1	40

m	cm
5	55
- 2	48

m	cm
17	20
- 6	15

Word application involving subtraction of length

Examples

1. Nakandi had a string of 8m 47cm. she cut off 2m 160m. What length of the string was left?

m	cm
8	47
- 2	16
5	31

2. A trader had 15m 53cm of a cloth. He sold 5m 10cm of it. What length of the cloth was left?

m	cm

```
      15            53
  -    5            10
      10            43
  _____
```

3. Mulenga's sugarcane was 2m 85cm long. He cut off 1m 10cm and gave it to his young brother. What is the length of the remaining sugarcane?

```
      m            cm
      2            85
  -   1            10
      1            75
  _____
```

Activity

1. A trade had 15m 53cm of a cloth. He sold 5m 10cm of it. What length of cloth was left?
2. The height of 2 girls is 2m 42cm. If one of the girls is 1m 28cm tall. Find the height of the other girl?
3. A trader had a ribbon 12m 56cm long. He sold 4m 17cm. Find the length of the remaining ribbons.
4. The length of 2 ropes is 13m 81cm. If one of the ropes is 6m 27cm. Find the length of the remaining rope.

Converting meters to centimeters

Examples

1. Change 4m to centimeters.

   Solutions

   (1m = 100cm)

   4m = (4x100) cm

   4m = 400cm

2. Express 9m to centimeters

   (1m = 100cm)

   9m = (x100)cm

   9m = 900cm

```
      100
   x    9
      900
   _____
```

3. Change 6m to cm

   (1m = 100cm)

   6m=(6x100)cm

   6m=600cm

```
      100
   x    6
   _____
```

Activity

Express the following meters into centimeters.

a) 7m

b) 8m

c) 2m

d) 6m

e) 1m

f) 10m

g) 13m

Converting centimeters to meters

1. Change 400cm to meters

   (1m = 100cm)

   ? = 400cm $\underline{400} = 4$

   = (400 ÷100) m   100

   =4m

2. Change 600cm to meters

   (1m = 100cm)

   ? = 600cm $\underline{600} = 6$

   (600 ÷ 100)m = 600cm   100

   6m = 600cm

3. Express 100cm to metres

   (1m = 100cm)

   ? = 100cm $\underline{1000} = 10$

   (1000÷100)m = 100cm   100

   10m = 1000cm

Activity

1. **Express the following centimeters to meters.**

   700cm

   a) 300cm

   b) 800cm

   c) 900cm

   d) 1000cm

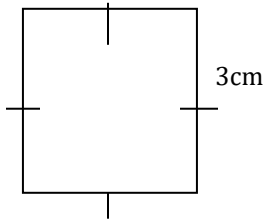   e) 1400cm

   f) 100cm

THEME: BASIC TECHNOLOGY IN OUR SUB-COUNTY

SUBTHEME: CONCEPT OF TECHNOLOGY

FINDING PERIMETER OF A SQUARE.

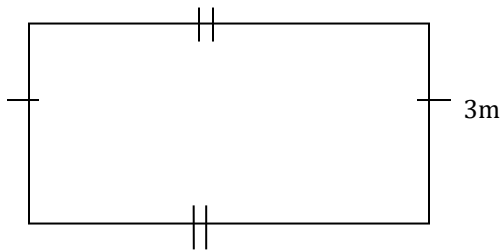What is perimeter?

Perimeter is the total distance round the figure.

3cm

P = S + S + S + S

P = 3cm + 3cm + 3cm + 3cm

P = 12cm

PERIMETER OF A RECTANGLE.

3m

P = S + S+ S+ S+ S

P = 6m + 3m + 6m + 3m

P = 9m + 9m

p = 18m

PERIMETER OF A TRIANGLE.
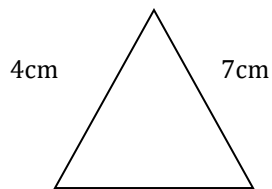
4cm   7cm

P = S + S + S

P = 5cm + 7cm + 4cm

P = 16cm

Exercise

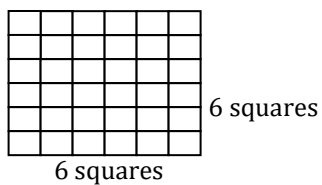**Find the area of the following polygons**

1.

4cm

3cm

4cm

6cm

2m

6m

3m
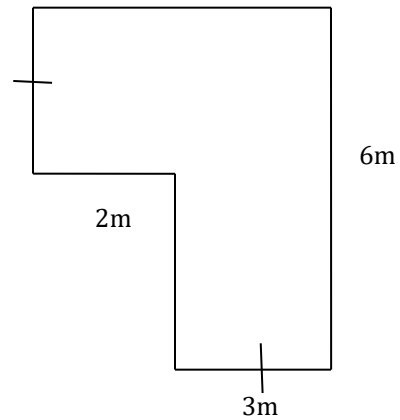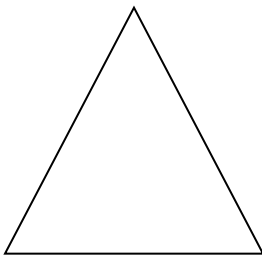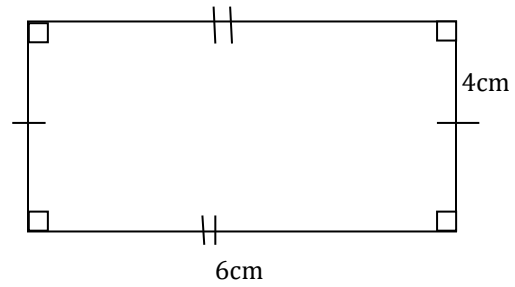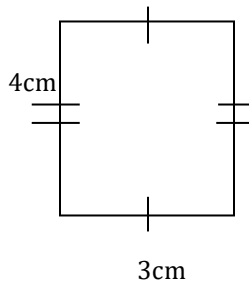
Finding area of shapes

Area is the number of squares contained in a shape / figure
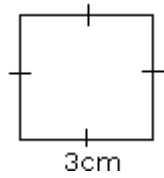
Find the area of the shape below (square)

6 squares

6 squares
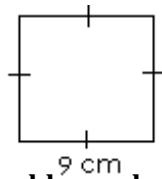
By counting: = 36 square units Area of squares

Measuring area of a square.
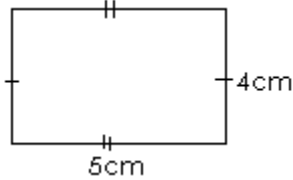
Examples: 1. Find the area of the squares.

Area = S X S
3cm x 3cm
9   cm² or square cm

Area = s x s

9cm x 9cm
= 81cm² or square cm

Solving word problems about area.

Example: Find the area of a mat which is 5cm long and 4cm wide.

Area = Length   x width
= 5cm x 4cm
= 20 square cm or cm²

Evaluation: New Mk p/s bk 3 page 157

THEME: ENERGY IN OUR SUB-COUNTY/ DIVISION

SUBTHEME: DANGERS OF ENERGY AND WAYS OF AVOIDING THEM

Comparing different containers

Measuring capacity.

Example: How many ½ litres make a litre?
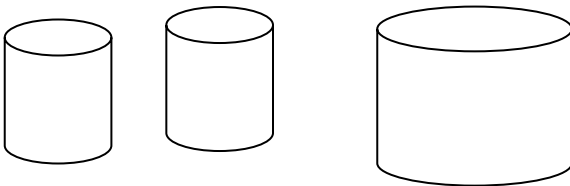
½ litre + ½ litre =   1 litre

Therefore, 1 litre = 2 halves

Evaluation: New Mk p/s bk 3 pg. 161

Converting litres to millilitres

Example: change 3 litres to centiliters
1 litre = 1000ml
3 litres = (3 x 1000) ml
3 litres = 3000ml

Evaluation: Teacher's collection.

Converting millitres to litres

Example: How many litres are in 5000ml?

1 litre = 1000ml

? = 5000ml

$$\left(\frac{5000ml}{1000ml}\right) \text{ litres}$$

= 5 litres

Evaluation: Teacher's collection.

Adding litres and milliliters

Examples   Add: 1 5 0 litres

+   3 5 0 litres

5   0 0 litres

2. Add: Litres   millilitres

3   2 5

+ 2   6 0

5   8 5

Evaluation: Teacher's collection.

Word problems involving addition of litres

Examples:

Mr. Lubega made 24 litres of juice and Kato made 78 litres.
How much juice did the two men make?

2   4   litres

+   7 8   litres

10   2   litres

There fore, They made 102 litres of juice

Evaluation : New Mk P/s bk 3 page 163.

Subtraction of litres and millilitres.

Examples: 2   4   7 litres

-    2   5 litres

2   2   2 litres

a.   **Subtract**   litres   milliilitres

8   4 8

-     5   3 0

3   18

Evaluation: New Mk p/s bk 3: pg 164

Word problems involving subtraction of litres and millilitres.

Example:

A shop keeper had 565 litres of paraffin. 498 were sold.

How much paraffin was left?

```
      5    6    5 litres
  -   4    9    8 litres
      0    6    7 litres
```

Therefore 67 litres were left.

Evaluation: New Mk p/s bk 3 page 165.

Addition of weight in kg and g

Examples

kg	g
4	250
+ 2	300
6	5 5 0

kg	g
15	400
+ 6	350
21	750

Activity
Try these

kg	g
5	250
+ 3	150

kg	g
12	550
+ 7	230

kg	g
6	420
+ 4	250

kg	g
32	630
+ 15	180

kg	g
7	844
+ 5	126

kg	g
475	380
+ 209	420

Addition of weight in kg and g in word applications

1. Nayiga has 4kg 250g of sugar. Her father gives her 3kg 500g. How much sugar does she have now?

kg	g
4	250

	kg	g
+	3	500
	7	750

2. Olupot carried 8kg 750g of millet flour. His sister carried 9kg 150g. How much flour did they carry altogether?

	kg	g
	8	750
+	9	150
	17	900

Activity

1. Nabulime's bag weighs 5kg 150g. Her brother's bag weighs 3kg 2250g. Find the total weight of the two bags.

2. Kato weighs 17kg 280g. His sister weighs 20kg 25g. Find their total weight?

3. Katabula's luggage weighs 12kg 500g. His wife's luggage weighs 15kg 250g. What is the weight of the two luggage?

4. Kiconco got 26kg 250g of simsim. His brother got 25kg 180g. Find the total weight of sim sim they got.

5. Our headteacher bought 195kg of maize flour. Her deputy bought 109kg 250g. How much did they buy altogether?

6. A lorry carried 500kg 425g of sand and another 250kg 180g. How much sand did the lorries carry altogether?

Subtraction of weight in kg and g

Examples

	kg	g
	9	650
-	7	200
	2	450

	kg	g
	135	700
-	16	250
	119	450

Activity

Oyo

	kg	g
	7	800
-	3	300

	kg	g
	30	500
-	15	250

	kg	g

	kg	g

	7	800	
-	3	300	

	30	500
-	15	250

	kg	g
	10	670
-	8	450

	kg	g
	43	650
-	28	300

	kg	g
	344	350
-	118	390

	kg	g
	13	940
-	7	180

	kg	g
	72	750
-	59	380

	kg	g
	15	840
-	10	660

Word applications involving subtraction of weight in kg and g

Examples

3. Nagujja had 8kg 300g of beans. She gave 2kg 100g of beans to grandmother. Find the amount of beans she remained with?

	kg	g
	8	500
-	2	100
	6	400

4. Ladiyo had 25kg 700g of ground nuts. he sold 20kg 250g. What amount of ground nuts did he remain with?

	kg	g
	25	700
-	20	250
	5	450

Activity

1. Nannon had 5kg 750g of slat. She gave 3kg 250g to her mother. How much salt did she remain with?

2. Ssali had 12kg 500g of tomatoes. he sold 8kg 250kg. Find the amount of tomatoes he remained with?

3. Adyeri was given 22kg 900g of ghee. She sold 19kg 250g. How much ghee remained?

4. Tumukunde made 33kg 750g of millet flour. he cooked 15kg 150g of it. How much millet flour was left?

5. Akut had 45kg 500g of simsim. She gave 23kg 170g to her daughter. Find the amount of simsim she was left with?

6. Nansubuga weighs 18kg 700g and her brother weighs 24kg 250g. Find the difference between their weights?