

P.4 MATHEMATICS LESSON NOTES TERM III

Theme :	Measurements
Topic :	Money
Subtopic :	Identifying Uganda Coins and notes
<u>Competences</u>	
Subject :	The learner identifies coins and notes
Language :	Describes different coins and notes
Methods :	Group discussion, guided discovery and brain storming
Content :	Identifying Uganda coins and notes

Identifying Uganda coins and notes

Examples

1. Tom has 2 coins of shs. 500 and 2 notes of shs. 1000. How much money does Tom have?

2 coins of shs 500

sh. 500

x 2

sh. 1000

2 notes of sh. 1000

sh. 1000

x 2

sh. 2000

Total

Sh. 2000

+ Sh. 1000

Sh. 3000

Therefore: Tom has sh. 3000

2. I have 3 coins of sh.200, 4 coins of sh. 500 and 3 notes of sh. 2000. How much money do I have altogether?

sh. 200

x 3

sh. 600

sh. 500

x 4

sh. 2000

sh. 2000

x 3

sh. 6000

Total

Sh. 6000

+ Sh. 2000

Sh. 8000

Sh. 8,600

Therefore: I have shs. 8600.

Activity

- John has 2 coins of sh. 500, 3 notes of shs. 1000 and 3 notes of shs. 2,000. How much money does John have?
- Paul banked 3 notes of shs. 20,000 and 2 notes of sh. 5000. How much money did he bank altogether?
- I have 1 coin of sh. 500 and 2 notes of shs. 1000. How much money do I have altogether?

4. Bella has 1 note of sh. 50,000, 1 note of sh. 20,000 and 4 notes of shs. 5000. How much money does she have altogether?
5. Find the total if one has 5 notes of sh. 10,000 each.
6. Workout the total amount if one has 2 notes of sh. 5000 and 2 coins of sh. 500.
7. Sarah paid the debt using 3 notes of shs. 20,000 and 1 note of sh. 5000. How much did she pay altogether?

Evaluation

- i) Strength
- ii) Weakness

Theme : Measurements

Topic : Money

Subtopic : Writing money in words

Competences

Subject : The learner writes money in words

Language : The learner reads and spells words correctly

Methods : Group discussion, guided discovery

Content : Writing money in words

Writing money in words

Examples

1. Write sh. 72,600 in words

Thousands	Units
72	600

Seventy two thousand six hundred shillings

2. Write shs. 2,850 in words

Thousands	Units
2	850

Two thousand eight hundred fifty shillings

3. Write 77,454 in words

Thousands	Units
77	454

Seventy seven thousand four hundred fifty four shillings

Activity

Write the following in words

1. Sh. 6800
2. Sh. 20350

3. Sh. 17740
4. Sh. 102,405
5. Sh. 12,450
6. Sh. 100,100
7. Shs. 999,999

Evaluation

1. Strength
2. Weak areas
3. Way forward

Theme : Measurements
 Topic : Money
 Subtopic : Buying and selling involving addition

Competences

Subject : The learner adds the given amounts
 Language : The learner role plays using money
 Methods : Group discussion, guided discovery
 Content : Buying and selling involving addition

Buying and selling involving addition

Examples

1. Add: shs. 170 + shs. 250
 shs. 170
 shs. 250
 shs. 420 = shs. 420

2. Mrs. Mayiga bought a bunch of matooke at sh. 6500 and sh. 500. How much did she spend altogether?

Matooke and tomatoes

shs. 6 5 0 0
 + shs. 5 0 0
shs. 7 0 0 0

Therefore: She spent shs. 7000 altogether

3. John bought soda at sh. 600 and shs. 1200. How much did he pay?

shs. 1 2 0 0
 + shs. 6 0 0
shs. 1 8 0 0

Therefore: John paid shs. 1800

4. Lilian bought a packet of biscuits at sh. 1200 and a bar of soap at shs. 1000. How much did she pay?

$$\begin{array}{r}
 \text{Biscuit} \quad \text{Sh. } 1200 \\
 + \\
 \text{Soap} \quad \quad \text{Sh. } 1000 \\
 \hline
 \text{Sh. } 2200
 \end{array}$$

Therefore : She paid sh. 2200

5. Opolot bought a loaf of bread at shs. 1800, 2 bottles of soda at sh. 1200 each and a box of matches at shs. 100. How much did he pay altogether?

<u>Bread</u>	<u>Soda</u>	<u>Matches</u>	<u>Total</u>
s. 1800	1200	Sh. 100	Sh. 2400
	$\times 2$		Sh. 1800
	<u>2400</u>		<u>Sh. 100</u>
			<u>Sh. 4300</u>

Therefore: He paid sh. 4300

Activity

- Wasaba bought soda at sh. 1500 and bread at sh. 1200. How much did he pay?
- A porter earns shs. 1500 in the morning and sh. 2700 in the afternoon. How much does the porter earn altogether?
- Add: $\begin{array}{r} \text{Sh. } 4540 \\ + \text{Sh. } 3680 \\ \hline \text{Sh. } 2640 \end{array}$
- Add: $\begin{array}{r} \text{Sh. } 1780 \\ + \text{Sh. } 2640 \\ \hline \end{array}$
- John had sh. 4,500 and Mary had sh. 3750. How much money do the two children have altogether?
- A mother bought meat for sh. 2500 and a bunch of matooke for sh. 4550. How much did she spend altogether?
- Ankunda bought tooth paste for sh. 1500 and a tooth brush for sh. 2200. How much did she pay altogether?
- Alice's school fees is sh. 7,850 and Jane's fees is sh. 1,890. How much money do the two pupils pay altogether?
- Add sh. 380 to sh. 1490.

10. I had sh. 480 and I was given sh. 1,260. How much do I have altogether?

Evaluation

1. Strength
2. Weakness
3. Way forward

Theme	:	Measurements
Topic	:	Money
Subtopic	:	Buying and selling involving subtraction
<u>Competences</u>		
Subject	:	The learner subtracts money
Language	:	The learner role plays using money
Methods	:	Brainstorming, group discussion, discovery
Content	:	Buying and selling involving subtraction

Buying and selling involving subtraction

Examples

1. Subtract : sh. 9800 – shs. 5300

$$\begin{array}{r} \text{Sh. } 9800 \\ - \text{Sh. } 5300 \\ \hline \text{Sh. } 4500 \end{array} = \text{sh. } 4500$$

2. How much change will you get from a thousand shilling note if you spend sh. 350?

$$\begin{array}{r} \text{Sh. } 1000 \\ - \text{Sh. } 350 \\ \hline \text{Sh. } 650 \end{array} = \text{Change is sh. } 650$$

3. Subtract Sh. 25000

$$\begin{array}{r} \text{Sh. } 25000 \\ - \text{Sh. } 12450 \\ \hline \text{Sh. } 12550 \end{array} = \text{sh. } 12,550$$

4. How much change do I get if I spend 6500 from sh. 20,000.

$$\begin{array}{r} \text{Sh. } 20000 \\ - \text{Sh. } 6500 \\ \hline \text{Sh. } 13500 \end{array} = \text{I will get sh. } 13,500$$

Activity

1. Ashaba had a shs. 1000 note. She bought a pawpaw at sh.500 and a mango for sh. 100. What was Ashaba's balance?
2. Kalema had sh. 5000 and bought Irish potatoes at shs. 2,500. How much money did he remain with?
3. A gola had sh. 10,000 and bought a bunch of bananas at shs. 7000. What was her balance?
4. Kembelo had sh. 1000 and spent sh. 450. What was his change?
5. Martha had a five thousand shilling notes and she bought a biscuit at sh. 800. What was her change?

6. Naigino had sh. 5000, if she spends sh. 3570 on Vaseline, what is her change?
7. Atto paid a shopkeeper sh. 10,000 for a book costing sh. 450. What was her change?
8. Subtract Sh. 9 5 4 5 0
- Sh. 4 1 9 7 0
-

Theme	:	Measurements
Topic	:	Money
Subtopic	:	Buying and selling involving multiplication
<u>Competences</u>		
Subject	:	The learner multiplies money
Language	:	The learner role plays, using money
Methods	:	Group discussion, guided discovery
Content	:	Buying and selling involving multiplication

Buying and selling involving multiplication

Example

1. Multiply : Sh. 8 9 6
x Sh. 6
Sh. 5376

2. A kilogramme of margarine costs shs. 4500. How much will one pay for 2 kg

1 kg = sh. 4 500
2 kg = sh. 4 500

x 2
Sh. 9000

= One will pay sh. 9000

3. Find the cost of 5 exercise books, if one book costs sh. 320.

1 book = sh. 320
5 books = sh. 320

x 5
Sh. 1,600

= 5 exercise books cost sh. 1600

4. One pen costs sh. 1500. How much will 6 pens cost?

1 pen = sh. 1500
6 pens = sh. 1500

x 6
Sh. 9000

= 6 pens will cost sh. 9000

5. A tin of shoe polish costs sh. 2700. How much will you pay for 9 such tins

1 tin = sh. 2700
9 tins = sh. 2700

x 9
Sh. 25,200

= You will pay sh. 25,200 for 9 tins

Activity

1. Workout

$$\begin{array}{r} \text{a) sh. } 945 \\ \times \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) sh. } 1500 \\ \times \quad 9 \\ \hline \end{array}$$

2. The cost of 1 loaf of bread is shs. 1600. Find the cost of 3 loaves.
3. The cost of 1 shirt is sh. 7500. Find the cost of 4 shirts.
4. The cost of a book is sh.370. find the cost of 10 books.
5. A bag of sweet potatoes costs shs. 14,000. Find the cost of 6 bags of the same sweet potatoes.
6. A basket of flour costs sh. 24,000. If a school bought 4 baskets of flour, how much money did it spend?
7. A bottle of soda cost shs. 600. Find the cost of 8 similar bottles of soda.
8. A shirt cost shs. 25,000. Find the cost of 4 similar shirts.
9. A tin of nido cost sh 14,500. Find the cost of 3 similar tins of nido.
10. A tin of kimbo costs sh. 2900. Find the cost of 9 similar tins of kimbo.

Evaluation

1. Strength
2. Weakness
3. Way forward

Theme	:	Measurements
Topic	:	Money
Subtopic	:	Buying and selling involving division
<u>Competences</u>		
Subject	:	The learner divides the given amount
Language	:	The learner role plays using money
Methods	:	Guided discovery, group discussion and brain storming
Content	:	Buying and selling involving division

Buying and selling involving division

Examples

1. A man bought a basket of 5 mangoes at sh. 1000. How much did he pay for each mango?
5 mangoes cost sh. 1000
1 mango costs sh. $\frac{1000}{5} = 200$
1 mango costs sh. 200
He paid sh. 200 for one mango

2. A shopkeeper sold 4 crates of soda for sh. 7200. What was the cost of 1 crate of soda?

5 crates = sh 7200

1 crate = sh. $\frac{7200}{4}$ ¹⁸⁰⁰

1 crate costs sh. 1800

The cost of 1 crate of soda is sh. 1800

3. Agutu bought 9 litres of petrol for sh. 14,850. What is the cost of petrol per litre?

9 litres cost sh. 14850

1 litre costs sh. $\frac{14850}{9}$ ¹⁶⁵⁰

1 litre costs sh. 1650

4. Sarah bought 6 mangoes at sh. 3600. Find the cost of each mango

6 mangoes cost sh. 3600

1 mango costs sh. $\frac{3600}{6}$ ⁶⁰⁰

1 mango costs sh. 600

5. Divide sh. 81000 by 9

sh. $\frac{81,000}{9}$ ⁹⁰⁰⁰

sh. 9000

Activity

1. A farmer sold 8 bags of coffee for sh. 40,000. What was the price of one bag?
2. Akello gave sh. 1200 to her 3 children to share equally. How much did each child get?
3. Share sh. 1,400 among 7 boys. How much will each get?
4. 10 workers were paid sh. 100,000 to share equally. How much money did each worker get?
5. I paid shs. 6000 for 5 kg of flour. What is the cost of 1kg?
6. Joan bought 3 litres of paraffin at sh. 5400. What is the cost of 1 litre of paraffin?
7. A basket of 9 oranges costs shs. 1800. What is the cost of one orange?
8. Six tooth brushes cost shs. 9000. Find the cost of one tooth brush.
9. A family buys 3 litres of milk at sh 7500. What is the cost of 1 litre of milk?
10. Share sh. 72,000 among 3 girls. How much will each girl get?

Evaluation

1. Strengths
2. Weak areas

3. Way forward

Theme	:	Measurement
Topic	:	Money
Subtopic	:	Interpreting shopping bill
Competences		
Subject	:	The learner interprets the given bill
Language	:	The learner reads and writes words
Methods	:	Guided discovery and brainstorming
Content	:	Interpreting shopping bills

Interpreting shopping bill

Examples

1. Study the shopping list below and use it to answer questions that follow:-

Item	Price in shillings
Salt	Sh. 500 per kg
Sugar	Sh. 1200 per kg
Soap	Sh. 700 per bar
Rice	Sh. 1000 per kg
Bread	Sh. 700 per loaf

- a) Find the cost of 2kg of sugar

$$1\text{kg} = \text{sh. } 1200$$

$$2\text{kg} = \text{sh. } 1200$$

$$\begin{array}{r} \text{sh. } 1200 \\ \times 2 \\ \hline \text{sh. } 2400 \end{array}$$

Therefore: 2 kg of sugar cost sh. 2400

- b) What is the cheapest item in the table?

A kg of salt

- c) Find the cost of 2kg of salt and 4kg of rice

$$\begin{array}{r} \text{Salt} \\ \text{sh. } 500 \\ \times 2 \\ \hline \text{sh. } 1000 \end{array}$$

$$\begin{array}{r} \text{Rice} \\ \text{Sh. } 1000 \\ \times 4 \\ \hline \text{sh. } 4000 \end{array}$$

$$\begin{array}{r} \text{Total} \\ \text{sh. } 4000 \\ + \text{sh. } 1000 \\ \hline \text{sh. } 5000 \end{array}$$

Therefore : The total amount will be shs. 5000

- d) Find the total cost of all the items

$$\begin{array}{r} \text{Sh. } 1200 \\ \text{sh. } 1000 \\ + \text{Sh. } 700 \\ \text{Sh. } 700 \\ \text{Sh. } 500 \\ \hline \text{Sh. } 4100 \end{array}$$

The total amount for all items is sh. 4100

Activity

Study the table below and answer the questions that follow:-

Item	Cost
Posho	Sh. 1500 per kg
Rice	Sh. 3000 per kg
Meat	Sh.6000 per kg
Milk	Sh. 1200 per litre
Oranges	Sh. 500 per orange

- How much is 3kg of rice?
- Find the cost of 2kg of posho and 1kg of meat
- Find the cost of 5 litres of milk.
- Find the cost of 4 oranges and 1kg of rice.
- Okello bought all items, how much did he spend altogether?

Evaluation

- Strengths
- Weakareas
- Way forward

Theme : Measurements
 Topic : Money
 Subtopic : Completing shopping tables

Competences

Subject : The learner completes shopping tables
 Language : The learner reads and spells words correctly
 Methods : Guided discovery, group discussion and brain storming
 Content : Completing shopping tables

1. Competing shopping tables

Item	Quantity	Unit cost	Total cost
Books	5	sh.300each	sh.1500
Pens	2	shs. 1000	sh. 2000
Rubber	2	shs. 600 each	shs.1200
Total expenditure			shs.4700

sh.300 x 5 _____	sh. 2000 ¹⁰⁰⁰ 2 ₁ =sh. 1000	sh. 12²00 6,00 =sh. 2	2000 + 1500 <u>1200</u> <u>4700</u>
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2. Complete the shopping bill below

Item	Quantity	Unit cost	Total cost
Sugar	3kg	sh. 2200 each	sh 6600
Salt	2 packets	shs. 150	sh. 300
Cooking oil	3 litres	sh. 1500 each	sh. 4500
Total expenditure			shs.11,400

Activity

Complete the shopping bills below

Item	Quantity	Unit cost	Total cost
Rice	3kg	sh. 900	shs. _____
Meat	2kg	shs. _____	shs. 4000
Tomatoes	_____ kg	shs. 600	shs, 1200
Total expenditure			shs. _____

Item	Quantity	Unit cost	Total cost
Pencils	2	sh. 400	shs. _____
Pens	2	shs. _____	shs. 5000
Books	_____	shs. 200	sh. 2400
Total expenditure			Shs. _____

Item	Quantity	Unit cost	Total cost
Beans	3kg	sh.1000 a kg	sh. _____
Sugar	2kg	sh. 2500	sh. _____
G. nuts	5kg	sh. _____	sh. 10000
Soya	_____ kg	Sh. 1800	Sh. _____
Total expenditure			sh. _____

Evaluation

1. Strength
2. Weakness
3. Way forward

Theme : Measurements

Topic : Money

Subtopic : Calculating profits

Competences

Subject : Calculates simple profits

Language : Uses examples to describe profits

Methods : Brain storming, Guided discovery and discussion

Content : Calculating profits

Calculating profits**Examples**

1. A shopkeeper buys a book at sh. 150 and sells it at sh. 200. What profit does he get?

Profit = selling price – buying price

 $P = S.P - B.P$ $P = \text{Sh. } 200 - \text{sh. } 150$ $P = \text{sh. } 50$ Therefore profit = sh. 50

2. Abdul bought a shirt at sh. 800. He sold it at sh. 1000. What was his profit?

Profit = selling price – buying price

$$P = S.P - B.P$$

$$P = \text{Sh. } 1000 - \text{sh. } 800$$

$$P = \text{sh. } 200$$

Therefore his profit was sh. 200

3. The cost of a radio is sh. 12,300. Musa sold the same radio at shs. 15,000. Find his profit.

Profit = Selling price – Buying price

$$P = S.P - B.P$$

$$P = \text{Sh. } 15,000 - \text{sh. } 12,300$$

$$P = \text{sh. } 2,700$$

Therefore his profit is sh. 2,700

4. Kato bought a pen at sh. 500 and sold it at sh. 700. What was his profit?

Profit = Selling price – Buying price

$$P = S.P - B.P$$

$$P = \text{sh. } 700 - \text{sh. } 500$$

$$P = \text{sh. } 200$$

Therefore his profit was sh. 200

Activity

1. Nampyo sold a book at sh. 900 which she had bought at sh. 750. What was her profit?
2. Ouma bought a packet of sugar at sh. 1,500 and sold it at sh. 2,000. What was his profit?
3. A lady sold a goat at sh. 7,500 which she bought at sh. 5000. What was her profit?
4. A shopkeeper bought a bag at sh. 13,000 and sold it at sh. 18,000. What was the profit?
5. A radio was bought at sh. 19000. Find the profit Kaaki made after selling that radio at sh. 23,000.
6. Kabundi bought a pair of shoes at sh. 27,000 and sold it at sh. 36,000. What was his profit?
7. The price of a dress was shs. 12,000. It was later sold at sh. 15,000. What was the profit?
8. A man bought a coat at sh. 35,000 and sold it at sh. 42,000. How much was his profit?
9. A cupboard is sold at shs. 72,000. What profit is made if it was bought at sh. 63,000?
10. Kiiza bought a goat at shs. 40,000 and sold it at sh. 53,000. How much profit did he make?

Evaluation

1. Strengths
2. Weakness
3. Way forward

Theme : Measurements
Topic : Money
Subtopic : Calculating loss

Competences

Subject : The learner calculates losses
Language : The learner uses examples to describe losses
Methods : Group discussion, guided discovery
Content : Calculating loss

Calculating loss

Examples

1. Joseph bought a shirt at sh. 22000. Later he sold it to John at sh. 15,000. How much loss did John make?

Loss = Buying price – selling price

Loss = sh. 22,000 – sh. 15000

Loss = sh. 7,000

Therefore – John made a loss of sh. 7000

2. Ntanda bought a book at sh. 350 and sold it at sh. 250. What amount did he lose?

Loss = Buying Price – selling price

Loss = B.P – S.P

Loss = sh. 350 – sh. 250

Loss = sh. 100

Therefore - Loss = sh. 100

3. Opini bought a book at sh. 1200 and sold it at sh. 800. What was his loss?

Loss = Buying price – selling price

Loss = B.P – S. P

Loss = sh. 1200 – sh. 800

Loss = sh. 400

Therefore – His loss was sh. 400

4. Natukunda bought a table at sh. 11,000 and sold it at sh. 8,000. What was her loss?

Loss = Buying Price – Selling price

Loss = B.P – S.p

Loss = Sh. 11,000 – sh. 8000

Loss = sh. 3000

Therefore Loss was sh. 3000

5. Ssozi bought a cup of sh. 3500 and sold it at sh. 3000. Calculate the loss he made.

Loss = Buying price – Selling price

Loss = B.P – S.P

Loss =- sh. 3500 – sh. 3000

Loss = sh. 500

Therefore – He made a loss of sh. 500

Activity

1. Kato bought a box of cakes at sh. 1,500 and sold it at sh. 1200. What was his loss?
2. Akiru bought a pen at sh. 1,800 and sold it at sh. 1300, what was her loss?
3. What was the loss on a commodity bought at sh. 2,000 and sold at sh. 1700?
4. Annet bought a mathematical set at sh. 2,800 and sold it at sh 2, 200. What was the loss?
5. Annet sold a bottle of milk at sh. 1500 which bought at sh. 1900. What was the loss?
6. A box of Kimbo is bought at sh. 3500 and sold at sh. 2900. What is the loss?
7. Martha bought a suit case at sh. 9,200 and sold it at sh. 8300. What was her loss?
8. Batte bought a bag at sh. 12500 and sold it at sh. 10,000. What loss did Batte make?
9. Find the loss made on an article bought at sh. 37500 and sold at sh. 33,000.
10. Akide bought a chair at sh. 42,750. She sold this chair at sh. 39,000. Calculate the loss she made.

Evaluation

Strength

Weakness

Way forward

Theme	:	Measurements
Topic	:	Money
Subtopic	:	Finding buying price
Competences		
Subject	:	The learner finds the buying price
Language	:	The learner reads, spells and pronounces words
Methods	:	Group discussion, brain storming and guided discover
Content	:	Finding buying price

Finding buying price

Note

Buying price = Selling price – Profit

Buying price = Selling price + Loss

Examples

1. Sarah sold a skirt at sh. 10,000 and got a profit of sh. 3000. At what price did she buy the skirt?

Buying price – Selling price – Profit

$$B.P = S.P - P$$

$$B.P = \text{sh. } 10,00 - \text{sh. } 3000$$

$$B.P = \text{sh. } 7,000$$

Therefore - She bought the skirt at sh. 7000.

2. Opolot made a profit of sh. 5,000 after selling a bicycle at sh. 95,000. At what price did he buy the bicycle?

Buying price = Selling price – Profit

$$B.P = S.P - P$$

$$B.P = \text{sh. } 95,000 - \text{sh. } 5,000$$

$$B.P = \text{sh. } 90,000$$

Therefore - Opolot bought a bicycle at sh. 90,000.

3. John sold a skirt at sh. 10,000 and made a loss of sh. 3000. At what price did he buy the skirt?

Buying price = Selling price + Loss

$$B.P = S.P + L$$

$$B.P = \text{sh. } 10,000 + \text{sh. } 3000$$

$$B.P = \text{Sh. } 13,000$$

Therefore – John bought a skirt at sh. 13000

4. Abel bought a pen and sold it at sh. 200 and made a loss of sh. 50. At what price did he buy a pen?

Buying price = Selling price + Loss

$$B.P = S.P + L$$

$$B.P = \text{Sh. } 200 + \text{sh. } 50$$

$$B.P = \text{sh. } 2500$$

Therefore : Abel bought a pen at sh. 250

Activity

1. Akol sold a cup at sh. 1000 and got a profit sh. 200. At what price did she but the cup?
2. Sarah sold a skirt at sh. 20,000 and made a profit of sh. 6000. How much did she buy the skirt?
3. Jane sold a bicycle at sh. 98,000. She made a profit of sh. 8000. How much did she buy the bicycle?
4. John sold a pair of trousers at sh. 33000 and made a profit of sh. 3000. How much did he buy the pair of trousers?
5. Tom sold a radio at sh. 17,000 and made a loss of sh. 3000. At what price did he buy the radio?
6. Joan sold a book at sh. 5000 and made a loss of shs. 4000. How much did she buy the book?

Evaluation

Strength

Weakness

Way forward

Theme : Measurements
Topic : Money
Subtopic : Finding selling price

Competences

Subject : The learner finds selling price
Language : The learner reads the questions correctly
Methods : Group discussion, discovery
Content : Finding selling price

Finding selling price

Note

Selling price – Buying price + profit

Selling price = Buying price – Loss

Examples

1. Sarah bought a skirt at sh. 2500. She sold and made a profit of sh. 5000. At what price did she sell the skirt?

Selling price = Buying price + Profit

$$S.P = B.P + P$$

$$S.P = \text{Sh. } 2500 + \text{sh. } 5000$$

$$S.P = \text{sh. } 30,000$$

Therefore- She sold the skirt at sh. 30,000

2. Paul bought a watch at sh. 18000. He sold it and got a profit of sh. 2000. At what price did he sell the watch?

Selling price = Buying price + Profit

$$S.P = B.P + P$$

$$S.P = \text{sh. } 18,000 + \text{sh. } 2000$$

$$S.P = \text{sh. } 20,000$$

Therefore- Paul sold the watch at sh. 20,000

3. Robin bought a skirt at sh. 27,000/=. She sold it and made a loss of 3000/=. At what price did she but a skirt?

Selling price = Buying price – Loss

$$S.P = B.P - \text{Loss}$$

$$S.P = \text{Sh. } 27000 - \text{sh. } 3000$$

$$S.P = \text{sh. } 24000$$

Therefore- She sold a skirt at sh. 24000

4. Mrs. Opolot bought a place at sh. 2500. And sold it making a loss of sh. 500. At what price did she sell the plate?

Selling price = Buying price – Loss

$$S.P = B.P - L$$

$$S.P = \text{Shs. } 25000 - \text{sh. } 500$$

$$S.P = \text{sh. } 2000$$

Therefore – she sold a plate at sh. 2000

Activity

1. Joan bought a dress at shs. 28000. She sold it and made a profit of sh 2000. At what time did she sell the dress?
2. Kapere bought a radio at sh. 35,000. He later sold it making a profit of sh. 5000. At what time did he sell the radio?
3. Anita bought shoes at sh. 26,000 and later sold it making a profit of 7,000. At what price did she sell the shoes?
4. A parent bought a T.V at sh. 150000. He later sold it and made a loss of sh. 30,000. How much did he sell the TV?

5. Agnes bought a skirt at sh. 28,000. Later she sold it making a loss of 3000/=. At what price did she sell?

Evaluation

Strength

Weakness

Way forward

Theme : Measurements
Topic : Time
Subtopic : Telling time using am and pm

Competences

Subject : The learner uses different types of clocks
Language : The learner tells time using am and pm
Methods : Guided discovery, discussion and brainstorming
Content : Telling time using am and pm

Telling time using am and pm

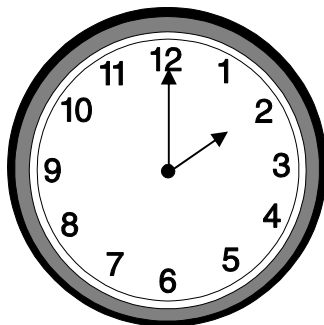
Note

Am for morning time

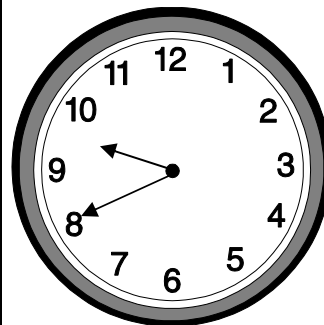
Pm for afternoon or evening time

Examples

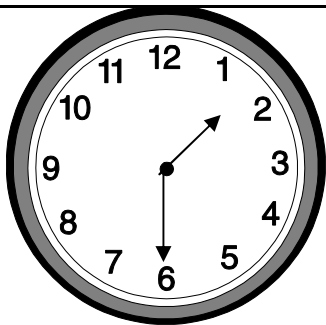
1. Tell the morning time shown on the clock faces below:-



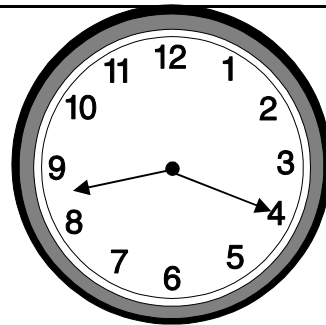
2:00am



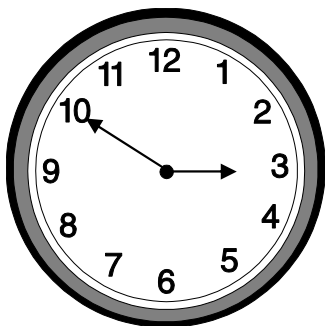
9:40am



1:30am

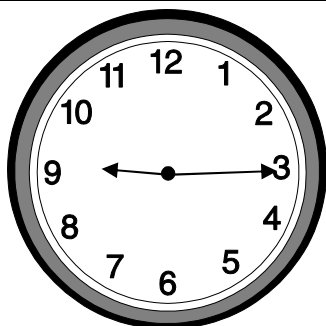


8:20am

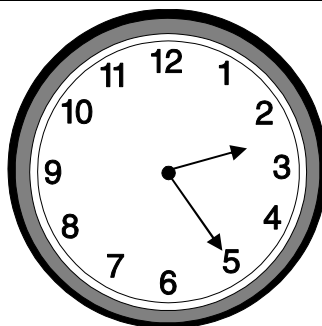


2:50am

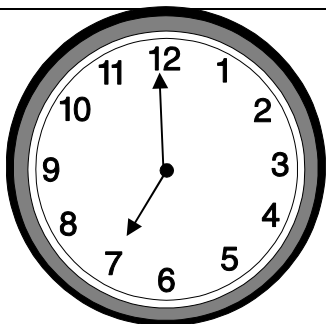
2. Tell the afternoon or evening time shown on the clock faces below



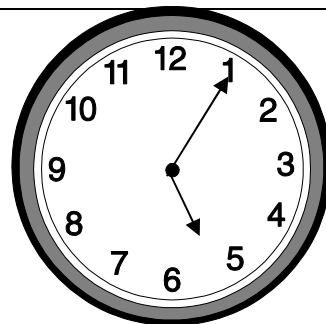
9:15pm



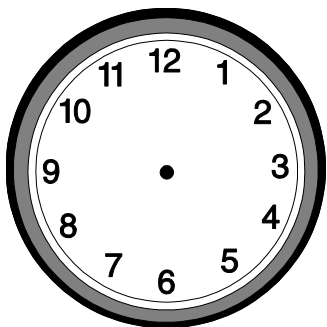
2:25pm



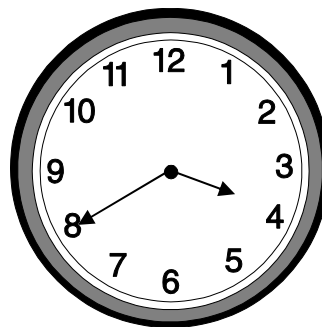
7:00pm



5:05pm



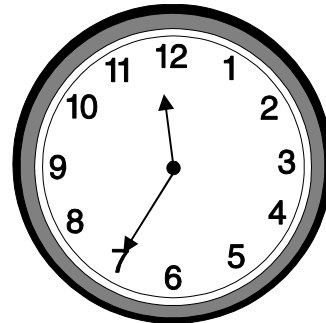
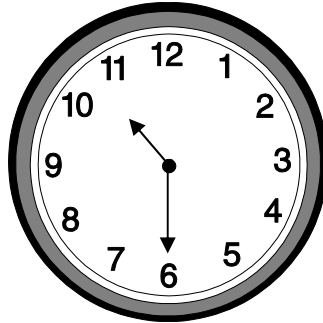
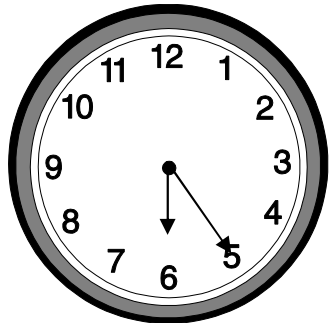
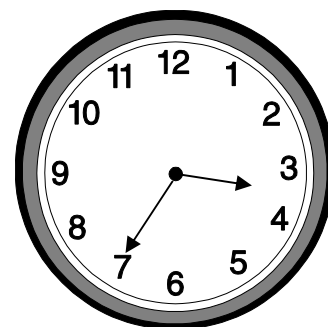
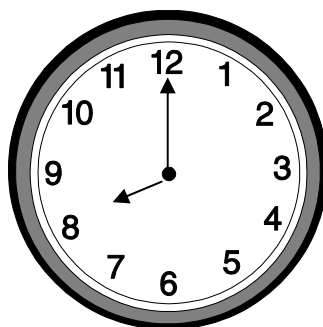
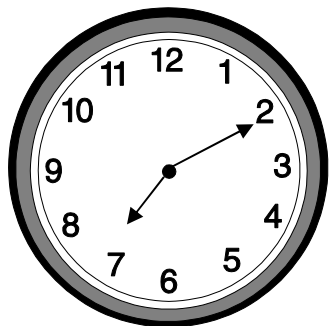
11:45



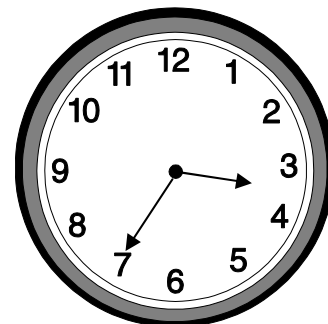
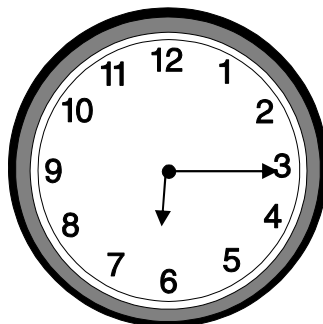
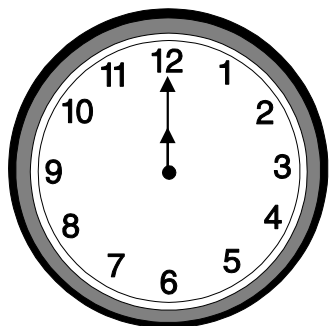
3:40pm

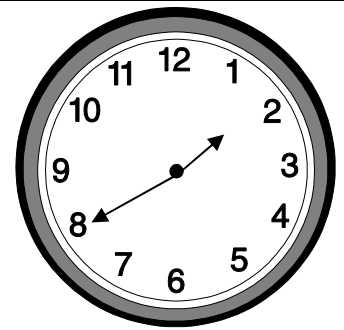
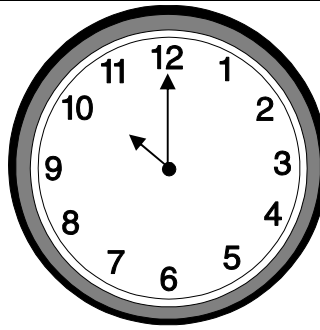
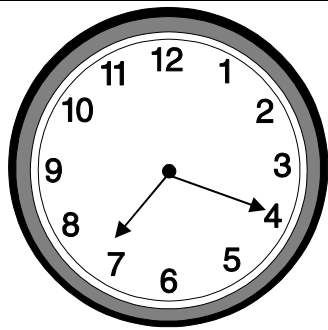
Activity

1. Tell the morning time shown on the clock faces below



2. Tell the afternoon or evening time shown on the clock faces below





Note: This lesson also used for telling time using “past” and “to”

Theme	:	Measurements
Topic	:	Time
Subtopic	:	changing hours to minutes
<u>Competences</u>		
Subject	:	The learner changes hours to minutes
Language	:	The learner gives the minutes in one hour
Methods	:	Group discussion, discovery and question and answer
Content	:	Changing hours to minutes

Changing hours to minutes

1 hour = 60 minutes

Examples

1. Change 4 hours to minutes

1 hour = 60 minutes

4 hours = (60 x 4) minutes
= 240 minutes

There are 240 minutes in 4 hours

2. Convert 15 hours into minutes

1 hour = 60 minutes

15 hours = (60 x 15) minutes
= 900 minutes

$$\begin{array}{r} 60 \\ \times 15 \\ \hline 300 \\ 60 \\ \hline 900 \end{array}$$

Therefore 15 hours = 900 minutes

3. Change $\frac{1}{3}$ an hour to minutes

1 hour = 60 minutes

1 hour = 60 minutes

$\frac{1}{3}$ an hour = $\cancel{60}^{20} \times \frac{1}{\cancel{3}_1}$ minutes

= (20 c 1) minutes

= 20 minutes

Therefore $\frac{1}{3}$ an hour = 20 minutes

4. Express $3\frac{1}{2}$ hours into minutes

1 hour = 60 minutes

$3\frac{1}{2}$ hours = $(\frac{1}{2} \times 60)$ minutes

1

= (7 x 30) minutes

= 210 minutes

= 219 minutes

Therefore $3\frac{1}{2}$ hours = 210 minutes

5. Change 4.5 hours to minutes

1 hour = 60 minutes

4.5 hours = $(\frac{45}{10} \times 60)$ minutes

= 45 x 6 minutes

= 270 minutes

Therefore 4.5 hours = 270 minutes

Activity

Change the following hours to minutes

1. 2hr

2. 5hrs

3. 9hrs

4. 12hrs

5. $\frac{1}{4}$ an hour

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

7. $2\frac{1}{2}$

8. $7\frac{1}{5}$ hours

9. 3.5 hours

10. 1.5 hours

Evaluation

Strength

Weakness

Way forward

Theme : Measurements
Topic : Time
Subtopic : Changing minutes to hours

Competences

Subject : The learner changes minutes to hours
Language : The learner gives the hours (past) in a minute
Methods : question and answer, guided discovery and discussion
Content : Changing minutes to hours.

Changing minutes to hours

Examples

1. Change 180 minutes to hours

60 minutes = 1 hour

180 minutes = $\frac{180}{60}$ hours

= 3 hours

Therefore 180 minutes = 3 hours

2. Change 540 minutes to hours

60 minutes = 1 hour

140 minutes = $\frac{540}{60}$ hours

= 9 hours

$$\begin{array}{r} 90 \\ 6 \overline{) 540} \\ \underline{60} \\ 0 \end{array}$$

5 4

$$6 \times 9 = 54$$

Therefore 540 minutes = 9 hours

3. Write 70 minutes in hours

70 – 60 = 10 (i)

1 hour and 10 minutes

4. Change 150 minutes into hours

150 – 60 = 90 (1)

90 – 60 = 30 (2)

2 hours and 30 minutes

5. Change 130 minutes to hours

130 – 60 = 70 (1)

70 – 60 = 10 (2)

2 rem 10

2 hours and 30 minutes

Activity

Change the following minutes into hours

1. 240 minutes
2. 360 minutes
3. 300 minutes
4. 280 minutes
5. 480 minutes
6. 420 minutes
7. 100 minutes
8. 140 minutes
9. 200 minutes
10. 200 minutes
11. 330 minutes

Evaluation

- Strength
- Weakness
- Way forward

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Changing weeks to days
<u>Competences</u>		
Subject	:	The learner changes weeks to days
Language	:	The learner gives the number of days in a week
Methods	:	Discovery, question and answer and discussion
Content	:	Changing weeks to days

Changing weeks to days

1 week = 7 days

Examples

1. Change 3 weeks to days

1 week = 7 days

3 weeks = (7×3) days
= 21 days

Therefore; 3 weeks = 21 days

2. How many days are in 8 weeks?

1 week = 7 days

8 weeks = (8×7) days
= 56 days

Therefore; 8 weeks = 56 days

3. Change 50 weeks to days

1 week = 7 days

50 weeks = (50×7) days
= 350 days

Therefore; 50 weeks = 350 days

4. Convert 24 weeks to days

1 week = 7 days

24 weeks = (24×7) days
= 168 days

Therefore; 24 weeks = 168 days

5. How many days are in 9 weeks

1 week = 7 days

9 weeks = (9×7) days
= 63 days

Therefore; 9 weeks = 63 days

Activity

Change the following weeks to days

1. 7 weeks
2. 10 weeks
3. 12 weeks
4. 15 weeks
5. 20 weeks

6. 30 weeks
7. 35 weeks
8. 49 weeks
9. 42 weeks
10. 5 weeks

Evaluation

- Strength
- Weakness
- Way forward

Theme : Measurements
 Topic : Time
 Subtopic : Changing days to weeks

Competences

Subject : The learner changes days to weeks
 Language : The learner reads sentences correctly
 Methods : Group discussion, question and answer
 Content : Changing days to weeks

Changing days to weeks

Examples

1. How many weeks are there in 63 days?

7 days = 1 week

63 days = (63⁹) weeks

7₁
 = 168 days

Therefore; 63 days = 9 weeks

$$\begin{array}{r}
 09 \\
 \overline{) 63} \\
 \underline{0} \times 7 = 0 \\
 63 \\
 \underline{9} \times 7 = 63 \\
 00
 \end{array}$$

2. Change 693 days to weeks

7 days = 1 week

693 days = (693⁹⁹) weeks

7₁
 = 99 days

Therefore; 693 days = 99 weeks

$$\begin{array}{r}
 009 \\
 \overline{) 693} \\
 \underline{0} \times 7 = 0 \\
 69 \\
 \underline{9} \times 7 = 63 \\
 063
 \end{array}$$

3. Convert 707 days into weeks

7 days = 1 week

707 days = $\frac{707}{7}^{101}$ weeks

$\frac{707}{7}$
= 101 days

Therefore; 707 days = 101 weeks

$$\begin{array}{r} 101 \\ \overline{7 \ 70 \ 7} \\ \underline{1 \times 7 = 7} \\ 00 \\ \underline{0 \times 7 = 0 \ 0} \\ 007 \end{array}$$

4. Change 637 days to weeks

7 days = 1 week

637 days = $\frac{637}{7}^{91}$ weeks

$\frac{637}{7}$
= 91 days

Therefore; 637 days = 91 weeks

$$\begin{array}{r} 091 \\ \overline{7 \ 63 \ 7} \\ \underline{0 \times 7 = 0} \\ 63 \\ \underline{9 \times 7 = 63} \\ 007 \end{array}$$

Activity

change the following days to weeks

1. 35 days
2. 49 days
3. 910 days
4. 1050 days
5. 315 days
6. 595 days
7. 392 days
8. 70 days
9. 175 days
10. 77 days

Evaluation

Theme : Measurements
Topic : Time
Subtopic : Changing Days to hours

Competences

Subject : The learner changes days to hours
Language : The learner describes how to convert days to hours
Methods : Question and answers, guided discovery and discussion
Content : Changing days to hours

Changing days to hours

1 day = 24 hours

Examples

1. How many hours are there in 5 days?

1 day = 24 hours

5 days = (24×5) hours

= 120 hours

Therefore 5 days has 120 hours

2. Change 17 days to hours

1 day = 24 hours

17 days = (24×17) hours

= 408 hours

Therefore 17 days has 408 hours

3. Convert 24 days to hours

1 day = 24 hours

24 days = (24×24) hours

= 576 hours

Therefore 24 days has 576 hours

4. Change 50 days to hours

1 day = 24 hours

50 days = (24×50) hours

= 1200 hours

Therefore 50 days has 1200 hours

5. Change $6\frac{1}{2}$ days to hours

1 day = 24 hours

$6\frac{1}{2}$ days = $(\frac{13}{2} \times 24)$ hours

= 13×12 hours

= 156 hours

Therefore $6\frac{1}{2}$ days has 156 hours

Activity

Change the following days to hours

1. 4 days
2. 6 days
3. 10 days
4. 13 days
5. 15 days
6. 19 days
7. 21 days
8. 30 days

9. 92 days
10. $7\frac{1}{2}$ days

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Changing hours to days
Competences		
Subject	:	The learner changes hours to days
Language	:	The learner
Methods	:	Question and answer, brain storming
Content	:	Changing hours to days

Changing hours to days

Examples

1. How many days are there in 72 hours

$$24 \text{ hours} = 1 \text{ day}$$

$$72 \text{ hours} = \frac{72}{24} \text{ days}$$

$$= 3 \text{ days}$$

Therefore 72 hours = 3 days

2. Change 216 hours into days

$$24 \text{ hours} = 1 \text{ day}$$

$$216 \text{ hours} = \frac{216}{24} \text{ days}$$

$$= 9 \text{ days}$$

Therefore 216 hours = 9 days

3. Change 144 hours to days

$$24 \text{ hours} = 1 \text{ day}$$

$$144 \text{ hours} = \frac{144}{24} \text{ days}$$

$$= 6 \text{ days}$$

Therefore 144 hours = 6 days

4. Change 168 hours into days

$$24 \text{ hours} = 1 \text{ day}$$

$$168 \text{ hours} = \frac{168}{24} \text{ days}$$

$$= 7 \text{ days}$$

Therefore 168 hours = 7 days

Activity

Change the following to days

- 48 hours
- 192 hours
- 60 hours

4. 240 hours
5. 720 hours
6. 264 hours
7. 480 hours
8. 120 hours

Evaluation

- Strength
- Weakness
- Way forward

Theme : Measurements
 Topic : Time
 Subtopic : Addition of time

Competences

Subject : The learner adds hours and minutes
 Language : The learner reads the sentences correctly
 Methods : Question and answer
 Content : Addition of time

Addition of time

Examples

1. Add: Hrs Min

3	4 0	4 0	
+ 4	3 0	+ 3 0	70 ÷ 60 = 1 rem 10
8	1 0	7 0	

2. Add: Hrs Min

6	1 0	4 0	
+ 3	4 0	+ 3 0	70 ÷ 60 = 1 rem 10
9	5 0	7 0	

3. Add: Hrs Min

4	3 5	3 5	
+ 3	5 0	+ 5 0	85 ÷ 60 = 1 rem 25
8	2 5	8 5	

4. A taxi driver took 2 hours 40 minutes to drive from Kampala to Masaka and 1 hour 45 minutes from Masaka to Kabula. How much time did he take altogether?

Hrs	Min		
2	4 0	4 0	
+ 1	4 5	+ 4 5	85 ÷ 60 = 1 rem 25
4	2 5	8 5	

5. At a party, speeches lasted 3 hours 30 minutes, lunch lasted 1 hour 15 minutes and entertainment lasted 2 hours 30 minutes. How long did the party last?

Speeches

	Hrs	Min	
Speeches	3	30	
Lunch	+	1	15
			+ 30
			75
Entertainment	2	30	
	7	15	

$$75 \div 60 = 1 \text{ rem } 15$$

Therefore the party took 7 hours 15 minutes

Activity

1. Workout the following

Hrs	Min
1	30
+ 3	35
<hr/>	

Hrs	Min
3	35
+ 2	35
<hr/>	

Hrs	Min
6	35
+ 7	46
<hr/>	

Hrs	Min
2	25
+ 1	35
<hr/>	

Hrs	Min
3	45
+ 3	50
<hr/>	

2. A cyclist rode for 5 hours 30 minutes from Ibanda to Isingiro and 2 hours 35 minutes from Isingiro to Mbarara. How long did he ride?
3. It took 5 hrs 38 minutes to load a vehicle and 4hrs 24 minutes to pack the goods in the store. Find the total time taken.

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Subtraction of time
Competences		
Subject	:	The learner subtracts time
Language	:	The learner reads sentences properly
Methods	:	Question and answer, guided discovery
Content	:	Subtraction of time

Subtraction of time

Examples

1. Subtraction

Hrs	Min	
2 3	2 5	60 + 25
- 1	4 5	85
<u>1</u>	<u>4 0</u>	- <u>45</u>
		40

2. Subtraction

Hrs	Min	
4	2 0	60 + 20
- 1	5 0	85
<u>2</u>	<u>3 0</u>	- <u>50</u>
		30

3. Gerald took 3 hrs 25 minutes to move from home to town. If he walked for 1 hour 35 minutes and took a taxi for the rest of the journey. How much time did he spend in the taxi?

Hrs	Min	
3	2 5	60
- 1	3 5	+25
<u>1</u>	<u>5 0</u>	85
		<u>35</u>
		50

He spent 1 hr and 50 minutes

4. Nankunda spend a total of 5 hours 20 minutes at school. she played for 1 hour 30 minutes. For how long did she stay in class?

Hrs	Min	
5	20	60
- 1	30	+20
<u>3</u>	<u>50</u>	80
		<u>-35</u>
		50

She stayed for 3 hrs and 50 minutes

Activity

Subtract the following:

Hrs	Min
6	25
- 3	40
<hr/>	

Hrs	Min
5	15
- 1	48
<hr/>	

Hrs	Min
12	45
- 4	56
<hr/>	

5. A pupil spent 8 hours 30 minutes at school. If he spent 5 hours 4 minutes in the classroom, how much did he spend outside the classroom?
6. A party lasted 6 hours 30 minutes. If 1 hour 45 minutes were used to serve food, how long did the other events take?

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Finding duration
Competences		
Subject	:	The learner finds the duration
Language	:	The learner reads the sentences properly
Methods	:	Question and answers, discussion and discovery
Content	:	Finding duration

Finding the duration

Duration = Ending time – Starting time

Examples

1. A mathematics lesson started at 7:15am and ended at 8:15 am – 7:15am

Hrs	Min
8	15
- 7	15
1	00

Therefore , the lesson took 1 hour

2. A mathematics lesson started at 8:15am and ended at 9:35 am. How long did it take?

Duration = Ending time – Starting time

Duration = 9:35am – 8:15am

Hrs	Min
9	35
- 8	15
1	20

It took 1 hour 20 minutes

3. John went to sleep at 2:15pm and woke up at 4:00 pm. How long did John take while sleeping?

Duration = Ending time – Starting time

Duration = 4:00pm – 2:15pm

Hrs	Min	
4	00	
- 2	15	60
1	45	- 15
		45

He took 1 hour 45 minutes

4. A concert started at 2:30pm and ended at 9:20pm. How long was the concert?

Duration = Ending time – Starting time

Duration = 9:20pm – 2:30pm

Hrs	Min	
89	20	
- 2	30	6 0
<u>6</u>	<u>50</u>	+ <u>2 0</u>
		8 0
		<u>-3 0</u>
		5 0

It took 6 hours 50 minutes

Activity

1. A bus started travelling from Jinja at 6:20 am and it reached Iganga at 9:00am. How long did it take?
2. An examination started at 8:45 am and ended at 11:00am. How long did it take?
3. We started our journey at 2:20 pm and reached at 4:05 p.m. How long did the journey take?
4. The baby went to sleep at 1:15pm and woke up at 3:00pm. How long did it take sleeping?
5. Baginza started digging at 6:45am and finished at 11:00 a.m. What time did he take?
6. A concert started at 4:30pm and ended at 10:20 p.m. How long was the concert?
7. A man started slashing at 7:30am and stopped at 11:10 am. How long did he slash?
8. The party started at 1:00pm and ended at 9:00pm. Find out how long it lasted.

Evaluation

Theme	:	Measurement
Topic	:	Time
Subtopic	:	Addition of weeks and days
<u>Competences</u>		
Subject	:	The learner adds weeks and days
Language	:	The learner reads the given questions
Methods	:	Question and answer, guided discussion
Content	:	Addition of weeks and days

Addition of weeks and days

Examples

1. Add:

	<u>Weeks</u>	<u>Days</u>
	1	3
+	2	5
	<u>4</u>	<u>1</u>

2. A carpenter took 5 weeks 5 days to make a wooden bed and 4 weeks 6 days to make a cupboard. How long did the carpenter take on both?

	<u>Weeks</u>	<u>Days</u>
	5	5
+	4	6
	<u>10</u>	<u>4</u>

3.

	<u>Weeks</u>	<u>Days</u>
	2	4
+	1	5
	<u>4</u>	<u>2</u>

4. John spent 2 weeks 3 days at his uncle's home and 1 week 6 days at his friend's home. How long was he away from home?

	<u>Weeks</u>	<u>Days</u>
	2	3
+	1	6
	<u>4</u>	<u>2</u>

Activity

Add the following weeks and days

	<u>Weeks</u>	<u>Days</u>
	7	4
+	3	5
	<u> </u>	<u> </u>

	<u>Weeks</u>	<u>Days</u>
	2	6
+	4	4
	<u> </u>	<u> </u>

	<u>Weeks</u>	<u>Days</u>
	12	6
+	4	5
	<u> </u>	<u> </u>

	<u>Weeks</u>	<u>Days</u>
	9	5
+	<u>2</u>	<u>2</u>
<hr/>		

	<u>Weeks</u>	<u>Days</u>
	2	4
+	<u>11</u>	<u>4</u>
<hr/>		

	<u>Weeks</u>	<u>Days</u>
	12	3
+	<u>17</u>	<u>5</u>
<hr/>		

A farmer took 3 weeks 3 days to harvest her coffee and 4 weeks 5 days to dry it. What was the total number of weeks and days taken?

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Subtraction of weeks and days
<u>Competences</u>		
Subject	:	The learner subtracts weeks and days
Language	:	The learner reads the given questions
Methods	:	Brainstorming, guided discovery
Content	:	Subtraction of weeks and days

Subtraction of weeks and days

Examples

	<u>Weeks</u>	<u>Days</u>
	11	0
-	<u>9</u>	<u>4</u>
	1	3
<hr/>		

$$7 - 4 = 3$$

$$10 - 9 = 1$$

	<u>Weeks</u>	<u>Days</u>	
	3	2	$7 + 2 = 9$
-	1	5	$9 - 5 = 4$
	1	4	$2 - 1 = 1$

	<u>Weeks</u>	<u>Days</u>	
	6	7	$7 - 6 = 1$
-	3	6	$5 - 3 = 2$
	1	3	

	<u>Weeks</u>	<u>Days</u>	
	12	5	$5 - 2 = 3$
-	7	2	$12 - 7 = 5$
	5	3	

	<u>Weeks</u>	<u>Days</u>	
	4	3	$7 + 3 = 10$
-	1	4	$10 - 4 = 6$
	2	6	$3 - 1 = 2$

Activity

Subtract the following weeks and days

	<u>Weeks</u>	<u>Days</u>
	12	1
-	8	5

	<u>Weeks</u>	<u>Days</u>
	8	2
-	3	5

	<u>Weeks</u>	<u>Days</u>
	11	0
-	9	4

	<u>Weeks</u>	<u>Days</u>
	23	0
-	16	3
	<hr/>	

	<u>Weeks</u>	<u>Days</u>
	5	3
-	2	5
	<hr/>	

	<u>Weeks</u>	<u>Days</u>
	7	4
-	2	6
	<hr/>	

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Months Of The Year
<u>Competences</u>		
Subject	:	The Learner Changes Years To Months
Language	:	The Learner Reads Sentences Correctly
Methods	:	Question And Answer, Group Discussion
Content	:	Months Of The Year

Months Of The Year

Examples

1. How Many Months Make A Year?
12 Months

2. Express $\frac{1}{2}$ Of A Year Into Months
1 Year = 12 Months
 $\frac{1}{2}$ A Year = ($\frac{1}{2} \times 12$) Months
= 6 Months

Therefore $\frac{1}{2}$ A Year = 6 Months

3. Change 2 Years Into Months

1 Year = 12 Months

**2 Years = (12 X 2) Months
= 24 Months**

Therefore 2 Years = 24 Months

4. Express 3 $\frac{1}{2}$ Years To Months

1 Year = 12 Months

3 $\frac{1}{2}$ Years = ($\frac{10}{2}$ X ~~12~~⁴) Months

= 10 X 4 Months

= 40 Months

Therefore 3 $\frac{1}{2}$ Years = 40 Months

Activity

Express The Following Into Months

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

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

3. 7 Years

4. $5\frac{1}{6}$ Years

5. 3 Years

6. $1\frac{1}{4}$ Years

Evaluation

Theme	:	Measurements
Topic	:	Time
Subtopic	:	Interpreting a calendar
<u>Competences</u>		
Subject	:	The learner interprets a calendar
Language	:	The learner reads the information on a calendar
Methods	:	Question and answer, Group discussion, discovery
Content	:	Interpreting a calendar

Interpreting a calendar

Examples

Study the calendar below and answer the questions that follow

JANUARY						
SUN	MON	TUE	WED	THUR	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	31	

1. Which day is the 14th of this month?
The 14th of this month is a Tuesday.
2. John will visit his grandparents on the 3rd Sunday of the months. Which date will it be?
It will be on the 19th
3. How many Mondays are in this month?
4 Mondays.
4. Which day is the 31st of this month?
The 31st of this month is a Friday.
5. Which date is the 2nd Saturday of this month?
It is 11th

Activity

Study the calendar below and answer the questions that follow

JULY						
SUN	MON	TUE	WED	THUR	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	31	

1. What is the first day of this month?
2. When is 20th of this month?
3. How many Thursdays are in this month?
4. Which date is the 4th Sunday of this month?
5. How many days make up this month?
6. How many full weeks make up this month?

Evaluations

Theme : Measurements
 Topic : Time
 Subtopic : Leap and Ordinary year

Competences

Subject : The learner determines leap and ordinary year
 Language : The learner describes how to know the leap or ordinary year
 Methods : Guided discovery and group discussion
 Content : Leap and ordinary year

Leap and ordinary year

An ordinary year has 365 days

A leap year has 366 days

Note:

1. We can tell which year is an ordinary or leap year by dividing the given year by 4 because a leap year appears every after 4 years.
2. An ordinary year gives a remainder when divided by 4.
3. A leap year does not give a remainder when divided by 4.

Examples

1. Which of these years are leap years?

- a) 1964
- b) 1975
- c) 1996
- d) 1956
- e) 1945

$$\begin{array}{r}
 1964 = \overline{) 0491} \\
 \underline{4 } \\
 0 \\
 \underline{19 } \\
 4 \times 4 = - \underline{16} \\
 36 \\
 \underline{9 \times 4 = - 36} \\
 004 \\
 \underline{1 \times 4 = - 4} \\
 0
 \end{array}$$

Therefore 1964 was a leap year.

$$\begin{array}{r}
 1975 = \overline{) 0493 \text{ rem } 3} \\
 \underline{4 } \\
 0 \\
 \underline{19 } \\
 4 \times 4 = - \underline{16} \\
 37 \\
 \underline{9 \times 4 = - 36} \\
 015 \\
 \underline{3 \times 4 = - 12} \\
 3
 \end{array}$$

Therefore 1975 was an ordinary year.

$$\begin{array}{r}
 1996 = \quad 0 \ 4 \ 9 \ 9 \\
 \quad \quad 4 \overline{) 1 \ 9 \ 9 \ 6} \\
 \quad \quad \quad \downarrow \downarrow \downarrow \\
 0 \times 4 = \quad 0 \downarrow \\
 \quad \quad 1 \ 9 \downarrow \\
 4 \times 4 = - \underline{1 \ 6} \downarrow \\
 \quad \quad \quad 3 \ 9 \downarrow \\
 9 \times 4 = - \underline{3 \ 6} \downarrow \\
 \quad \quad \quad \quad 3 \ 6 \downarrow \\
 9 \times 4 = - \underline{3 \ 6} \\
 \quad \quad \quad \quad \quad 0 \ 0
 \end{array}$$

Therefore 1996 was a leap year.

$$\begin{array}{r}
 1956 = \quad 0 \ 4 \ 8 \ 9 \\
 \quad \quad 4 \overline{) 1 \ 9 \ 5 \ 6} \\
 \quad \quad \quad \downarrow \downarrow \downarrow \\
 0 \times 4 = \quad 0 \downarrow \\
 \quad \quad 1 \ 9 \downarrow \\
 4 \times 4 = - \underline{1 \ 6} \downarrow \\
 \quad \quad \quad 3 \ 5 \downarrow \\
 8 \times 4 = - \underline{3 \ 2} \downarrow \\
 \quad \quad \quad \quad 3 \ 6 \downarrow \\
 9 \times 4 = - \underline{3 \ 6} \\
 \quad \quad \quad \quad \quad 0 \ 0
 \end{array}$$

Therefore 1956 was a leap year.

$$\begin{array}{r}
 1945 = \quad 0 \ 4 \ 8 \ 6 \text{ rem } 1 \\
 \quad \quad 4 \overline{) 1 \ 9 \ 4 \ 5} \\
 \quad \quad \quad \downarrow \downarrow \downarrow \\
 0 \times 4 = \quad 0 \downarrow \\
 \quad \quad 1 \ 9 \downarrow \\
 4 \times 4 = - \underline{1 \ 6} \downarrow \\
 \quad \quad \quad 3 \ 4 \downarrow \\
 8 \times 4 = - \underline{3 \ 2} \downarrow \\
 \quad \quad \quad \quad 2 \ 5 \downarrow \\
 6 \times 4 = - \underline{2 \ 4} \\
 \quad \quad \quad \quad \quad 0 \ 1
 \end{array}$$

Therefore 1945 was an ordinary year.

Activity

Write "Leap year" or Ordinary year" after calculation

1. 1971
2. 1944
3. 2000
4. 1936
5. 1986
6. 1999
7. 1988
8. 1954

Theme	:	Measurements
Topic	:	Length, mass and capacity
Subtopic	:	Changing metres to centimeters
Competences		
Subject	:	The learner changes metres to centimeters
Language	:	The learner spells and reads words correctly
Methods	:	Group discussion and guided discovery
Content	:	Changing metres to centimeters

Changing metres to centimeters

$$1\text{m} = 100\text{cm}$$

Examples

Change the following metres to centimeters

3m

$$1\text{m} = 100\text{cm}$$

$$3\text{m} = (3 \times 100)\text{cm}$$

$$3\text{m} = 300\text{cm}$$

$$\text{Therefore } 3\text{m} = 300\text{cm}$$

$$3\text{m} + 2\text{m} + 2\text{m}$$

7m

$$1\text{m} = 100\text{cm}$$

$$7\text{m} = 7 \times 100\text{cm}$$

$$7\text{m} = 700\text{cm}$$

$$(2 \times 3)\text{m}$$

6m

$$1\text{m} = 100\text{cm}$$

$$6\text{m} = 6 \times 100\text{cm}$$

$$= 600\text{cm}$$

$$\text{Therefore } (2 \times 3)\text{m} = 600\text{cm}$$

25 metres

$$1\text{m} = 100\text{cm}$$

$$25\text{m} = (25 \times 100)\text{cm}$$

$$25\text{m} = 2500\text{cm}$$

5.5m

$$1\text{m} = 100\text{cm}$$

$$5.5\text{m} \left(\frac{55}{10} \times 100 \right) \text{cm}$$

$$5.5\text{m} = 55 \times 10\text{cm}$$

$$= 550\text{cm}$$

$$\text{Therefore } 5.5\text{m} = 550\text{cm}$$

Activity

1. Change the following

(a) 4metres

(b) 27metres

(c) 14metres

(d) 18metres

(e) 6metres

2. Complete the table below.

m	2	5	10	8
cm	_____	_____	_____	_____

Theme : Measurements

Topic : length, mass and capacity

Subtopic : changing centimeters to metres

Competences

Subject :the learner changes cm to m

Language : The learner describes how to change cm to m

Methods : Question and answer and group discussion.

Content : Changing centimeters to metres

CHANGING CENTIMETRES TO METRES

Example

change the following to metres

1. 200cm

$$100\text{cm} = 1\text{m}$$

$$200\text{cm} = \left(\frac{200}{100}\right) \text{m}$$

$$= 2\text{m}$$

$$\therefore 200\text{cm} = 2\text{m}$$

2. 8000cm to metres

$$100\text{cm} = 1\text{m}$$

$$8000\text{cm} = \left(\frac{8000\text{cm}}{100}\right)\text{m}$$

$$= 80$$

$$\therefore 8000\text{cm} = 80\text{m}$$

3. 98000cm

$$100\text{cm} = 1\text{m}$$

$$9800\text{cm} = \left(\frac{9800}{100}\right) \text{m}$$

$$= 98\text{m}$$

$$\therefore 9800\text{cm} = 98\text{m}$$

4. 300cm.

$$100\text{cm} = 1\text{m}$$

$$300\text{cm} = \left(\frac{300}{100}\right) \text{m}$$

$$= 3\text{m}$$

$$\therefore 300\text{cm} = 3\text{m}$$

Activity

change the following to metres

1. 500cm

2. 700cm

3. 800cm

4. 400cm
5. 900cm
6. 600cm
7. 2300cm
8. 5300cm
9. 7400cm
10. 2900

Theme : Measurements

Topic : Length, mass and capacity

Subtopic : Converting kilometers to metres

Competences

Subject : The learner converts km to m

Language : The learner reads sentences correctly

Methods : Group discussion and guided discovery

Content : converting kilometers to metres

CONVERTING KILOMETRES TO METRES

1km = 1000m

example

change the following km to metres

1. 5km

1km = 1000m

5km = (5 x 1000) m

5km = 5000m

2. 12km

1km = 1000m

12km = (12 x 1000) m

∴ 12km = 12000m

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

1km = 1000m

$3\frac{1}{2}$ km = $(\frac{7}{2} \times 1000)$ m

= 7 x 500m

3500m

∴ $3\frac{1}{2}$ km = 3500m

4. Abdul covered 7km while running. What distance did he run in metres?

1km = 1000m

7km = (7x 1000) m

= 7000m

7km = 7000m

∴ He ran for 7000m.

activity

1. Change the following kilometers to metres.
 - (a) 4km
 - (b) 8km 550m
 - (c) 16km
 - (d) 19km
 - (e) 24km
2. Busega is 10km from Kampala. What is the distance in metres?
3. A cyclist covered a distance of 15km. what is the distance in metres?

example 5

change 3km 650m to km

$$1\text{km} = 1000\text{m}$$

$$3\text{km} = 3 \times 1000\text{m}$$

$$= 3000\text{m}$$

$$3\text{km } 650\text{m} = 3000\text{m}$$

$$\begin{array}{r} + 650\text{m} \\ \hline 3650\text{m} \end{array}$$

$$\therefore 3\text{km } 650\text{m} = 3650\text{m}$$

Theme : Measurements

Topic : Length, mass and capacity

Subtopic : Changing metres to kilometres

Competences

Subject : The learner changes m to km.

Language : The learner describes how to change.

Methods : Group discussion, guided discovery

Content : Changing metres to kilometers

CHANGING METRES TO KILOMETRES

example

change the following metres to kilometers

1. 4000m

$$1000\text{m} = 1\text{km}$$

$$4000\text{m} = \left(\frac{4000}{1000} \right) \text{km}$$

$$\therefore 4000\text{m} = 4\text{km}$$

2. 10,000m.

$$1000\text{m} = 1\text{km}$$

$$10,000\text{m} = \left(\frac{10,000}{1000} \right) \text{km}$$

$$10,000\text{m} = 10\text{km}$$

Therefore 10,000m = 10km

3. A pupil cycles 16500m to school. How many km are these?

1000m = 1km

16500m = $\frac{16500}{1000}$ km

Therefore, a pupil cycles 16.5km to school

4. A bus travelled a distance of 20,000 metres. What distance did it travel in kilometers?

1000m = 1km

20,000m = $\frac{20000}{1000}$ km

20,000m = 20km

Therefore, a bus travelled a distance of 20km

Activity

Change the following metres to kilometres

1. 5000m

2. 1500m

3. 30,000m

4. 6400m

5. 25000m

6. The distance from Kampala to Entebbe is 35000m. Change the distance to metres.

7. Komugisha has a string of length 11000m. How many kilometres is the string?

Evaluation

Theme : Measurements
Topic : Length, mass and capacity
Subtopic : Addition of metres and centimeters

Competences

Subject : The learner adds metres and centimeter
Language : The learner reads sentences properly
Methods : Question and answer, discussion
Content : Addition of metres and centimetres

Addition of metres and centmetres

Examples

1. Add:

	<u>M</u>	<u>CM</u>
	2	45
+	6	36
	8	81

$$\begin{array}{r} 45 \\ + 36 \\ \hline 81 \end{array}$$

$$2 + 6 = 8$$

2. Add:

	<u>M</u>	<u>CM</u>	
	8	25	
+	6	85	2 5
	<hr style="width: 100%;"/>	10	+ <u>5 5</u>
	15	10	<u>110</u>

$$110\text{cm} = 1\text{m } 10\text{cm}$$

3. Namusoke had 8m 55cm of cloth. She later bought 10m 85cm of cloth. Find the total length of cloth she has now.
4. Odyke has 13m 82cm of wire. His friend has 18m 36cm of wire. What is the total length of both wires?

	<u>M</u>	<u>CM</u>	
	13	82	
+	18	36	82
	<hr style="width: 100%;"/>	18	+ <u>36</u>
	32	18	<u>118</u>

$$1\text{m } 18\text{cm}$$

Odyke has 32m 18m

Activity

Add the following metres and centimetres

1.

	<u>M</u>	<u>CM</u>
	5	25
+	3	15
	<hr style="width: 100%;"/>	

2.

	<u>M</u>	<u>CM</u>
	4	75
+	3	95
	<hr style="width: 100%;"/>	

3.

	<u>M</u>	<u>CM</u>
	18	35
+	22	65
	<hr style="width: 100%;"/>	

4.

$$\begin{array}{r}
 \text{M} \qquad \text{CM} \\
 8 \qquad 50 \\
 + \quad 6 \qquad 30 \\
 \hline
 \end{array}$$

5. Sozi bought 15m 55cm of cloth on Monday 9m 65cm on Wednesday. What is the total length of the cloth?

6. Atim had 4m 75cm of a tape, Sarah had 3m 65cm. What is the total length of the tape?

Evaluation

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Subtraaction of metres and centimetres
<u>Competences</u>		
Subject	:	The learner subtracts m and cm
Language	:	The learner reads and writes words correctly
Methods	:	Guided discovery and discussion
Content	:	Subtracting of metres and centimetres

Subtraction of metres and centimetres

Examples

Subtract the following

1.

$$\begin{array}{r}
 \text{M} \qquad \text{CM} \\
 6 \qquad 80 \\
 - \quad 2 \qquad 60 \\
 \hline
 4 \qquad 20
 \end{array}$$

2.

$$\begin{array}{r}
 \text{M} \qquad \text{CM} \\
 9 \qquad 24 \\
 - \quad 5 \qquad 30 \\
 \hline
 3 \qquad 94
 \end{array}
 \qquad
 \begin{array}{r}
 100 \qquad 124 \\
 + \quad 24 \qquad - 30 \\
 \hline
 124 \qquad 94
 \end{array}$$

3.

	<u>M</u>	<u>CM</u>	
	10	15	100
-	6	30	+ 15
	3	85	115
			- 30
			85

4. Otim has a ribbon measuring 15m 36cm. He cut off 9m 21cm. What length remained?

	<u>M</u>	<u>CM</u>		
	15	36	36	15 - 9 = 6
-	9	21	- 21	
	4	15	15	

Activity

Subtract the following

1.

	<u>M</u>	<u>CM</u>
	7	30
-	2	10

2.

	<u>M</u>	<u>CM</u>
	20	60
-	13	80

3.

	<u>M</u>	<u>CM</u>
	8	50
-	6	30

4.

	<u>M</u>	<u>CM</u>
	18	30
-	8	40

5.

$$\begin{array}{r} \text{M} \quad \text{CM} \\ 28 \quad 10 \\ - 18 \quad 40 \\ \hline \end{array}$$

6.

$$\begin{array}{r} \text{M} \quad \text{CM} \\ 10 \quad 15 \\ - 6 \quad 85 \\ \hline \end{array}$$

7. An electric wire is 25m 25cm long. 1m 30cm is cut off. What length of wire is left?

8. Subtract 3m 75cm from 11m 20cm.

Evaluation

Theme	:	Measurements
Topic	:	Length, Mass and capacity
Subtopic	:	Addition of km and m
Competences		
Subject	:	The learner adds km and m
Language	:	The learner reads sentences correctly
Methods	:	Group discussion and guided discovery
Content	:	Addition of km and m

Addition of kilometres and metres

Examples

Add the following kilometres and metres

1.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 15 \quad 880 \\ + 6 \quad 750 \\ \hline 22 \quad 630 \end{array} \quad \begin{array}{r} 880 \\ + 750 \\ \hline 1630 \end{array} \quad \begin{array}{l} 1\text{km} \quad 630\text{m} \end{array}$$

2.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 13 \quad 530 \\ + 8 \quad 670 \\ \hline 22 \quad 200 \end{array} \quad \begin{array}{r} 530 \\ + 670 \\ \hline 1200 \end{array} \quad \begin{array}{l} 1\text{km} \quad 200\text{m} \end{array}$$

3. It is 4km 250m from Bwaise to Mpererwe and 5km 650m from Mpererwe to Gayaza. Find the total distance from Bwaise to Gayaza.

	<u>KM</u>	<u>CM</u>
	76	300
+	76	200
	<u>152</u>	<u>500</u>

The distance 152km 500m

Activity

Add the following kilometres and metres

1.

	<u>KM</u>	<u>CM</u>
	253	650
+	427	247
	<u> </u>	<u> </u>

2.

	<u>KM</u>	<u>CM</u>
	58	460
+	17	780
	<u> </u>	<u> </u>

3.

	<u>KM</u>	<u>CM</u>
	9	350
+	6	790
	<u> </u>	<u> </u>

4. It is 15km 500m from Kampala to Kajjansi and 9km 870m from Kajjansi to Katabi. Find the distance from Kampala to Katabi

Theme : Measurements
Topic : Lengths, Mass and Capacity
Subtopic : Subtraction of km and m
Competences
Subject : The learner subtracts km and m.
Language : The learner writes examples
Methods : Questions and answer, Guided discovery
Content : Subtraction of kilometres and metres.

Subtraction of kilometres and metres

Examples

Subtract the following

1.

$$\begin{array}{r}
 \text{KM} \qquad \text{CM} \\
 9 \qquad 530 \\
 - 2 \qquad 320 \\
 \hline
 7 \qquad 210 \\
 \hline
 \end{array}$$

2.

$$\begin{array}{r}
 \text{KM} \qquad \text{CM} \\
 46 \qquad 260 \\
 - 12 \qquad 370 \\
 \hline
 33 \qquad 890 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 1000 \qquad 45 \\
 + 260 \\
 \hline
 1260 \qquad -12 \\
 -370 \\
 \hline
 890 \qquad 33
 \end{array}$$

3. Subtract 12km 680m from 27km 240m

$$\begin{array}{r}
 \text{KM} \qquad \text{CM} \\
 27 \qquad 240 \\
 - 12 \qquad 680 \\
 \hline
 33 \qquad 560 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 1000 \qquad 26 \\
 + 240 \\
 \hline
 1240 \qquad -12 \\
 -680 \\
 \hline
 560 \qquad 14
 \end{array}$$

4. After covering a certain number of kilometres. Dorah has 18km 126m left out of 39km 200m. What part of the journey has Dorah covered?

$$\begin{array}{r}
 \text{KM} \qquad \text{CM} \\
 39 \qquad 200 \\
 - 18 \qquad 126 \\
 \hline
 21 \qquad 74 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 21\text{km} \qquad 74\text{m}
 \end{array}$$

Activity**Subtract the following**

1.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 47 \quad 170 \\ - 23 \quad 280 \\ \hline \end{array}$$

2.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 420 \quad 170 \\ - 373 \quad 780 \\ \hline \end{array}$$

3.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 90 \quad 55 \\ - 35 \quad 85 \\ \hline \end{array}$$

4.

$$\begin{array}{r} \text{KM} \quad \text{CM} \\ 650 \quad 150 \\ - 465 \quad 850 \\ \hline \end{array}$$

5. Subtract 2km 380m from 11km 870m

6. A man travelled a total distance of 28km 400m by bus and on foot. If he travelled 7km 250m on foot. What distance did he travel by bus?

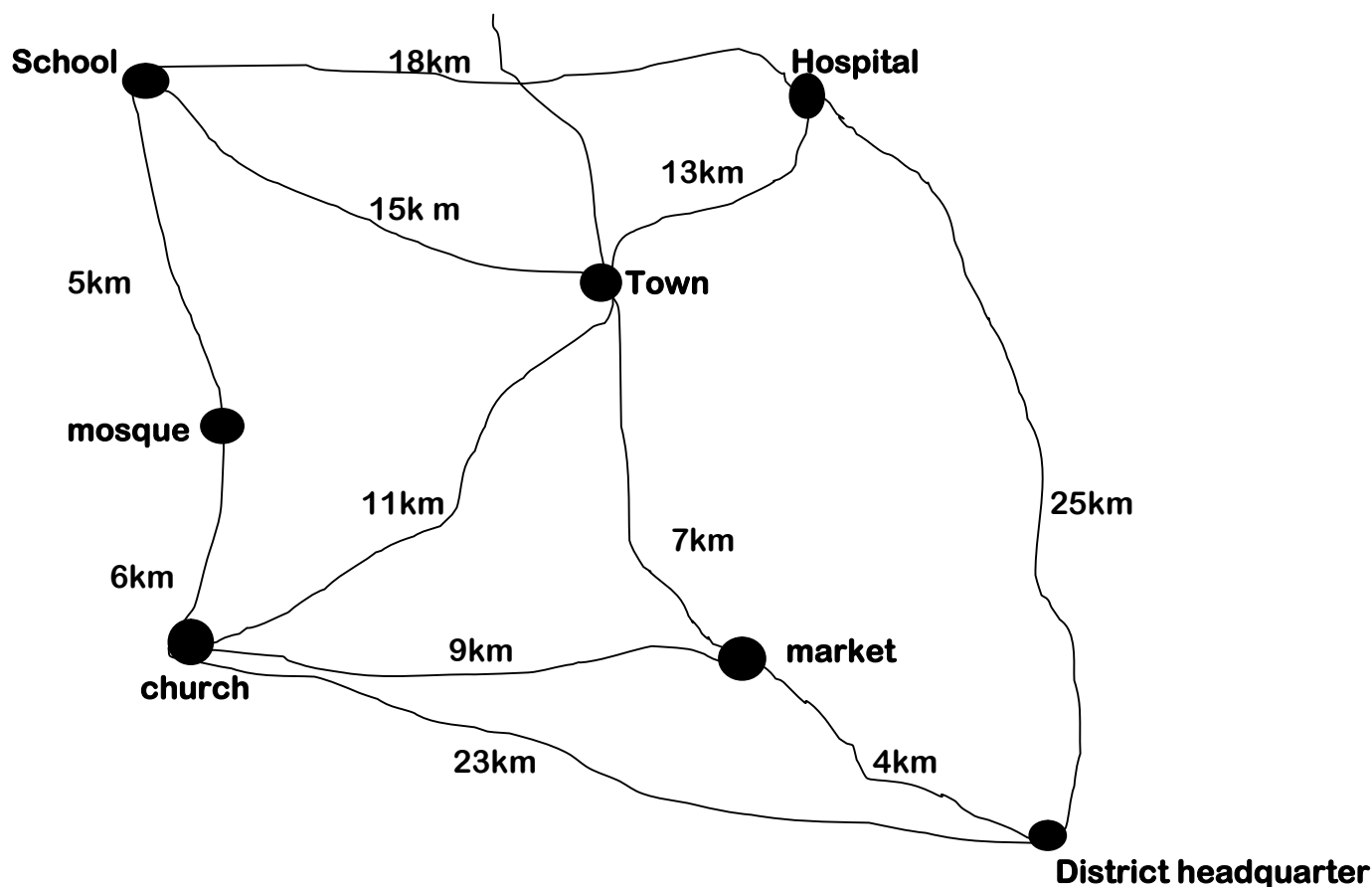
7. Subtract 15km 680m from 23km 750m

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Addition of long distance
Competences		
Subject	:	The learner adds long distance
Language	:	The learner describes the regions
Methods	:	Guided discussion and brainstorming
Content	:	Addition of long distances

Addition of long distance

Example

Study the map below and use it to answer questions that follow



1. How far is the school from the market passing by the church and mosque?
The school is 20km from the market.

2. How far is the church from the Hospital via District headquarter?
 $25\text{km} + 23\text{km} = 48\text{km}$
The church is 48km far from the Hospital via district headquarters

3. How far is the market from the Hospital through the town
 $13\text{km} + 7\text{km} = 20\text{km}$
The market is 20km from the hospital through the town

4. How far is the church from the hospital via town?

$$13\text{km} + 11\text{km} = 24\text{km}$$

The church is 24km from the Hospital via town

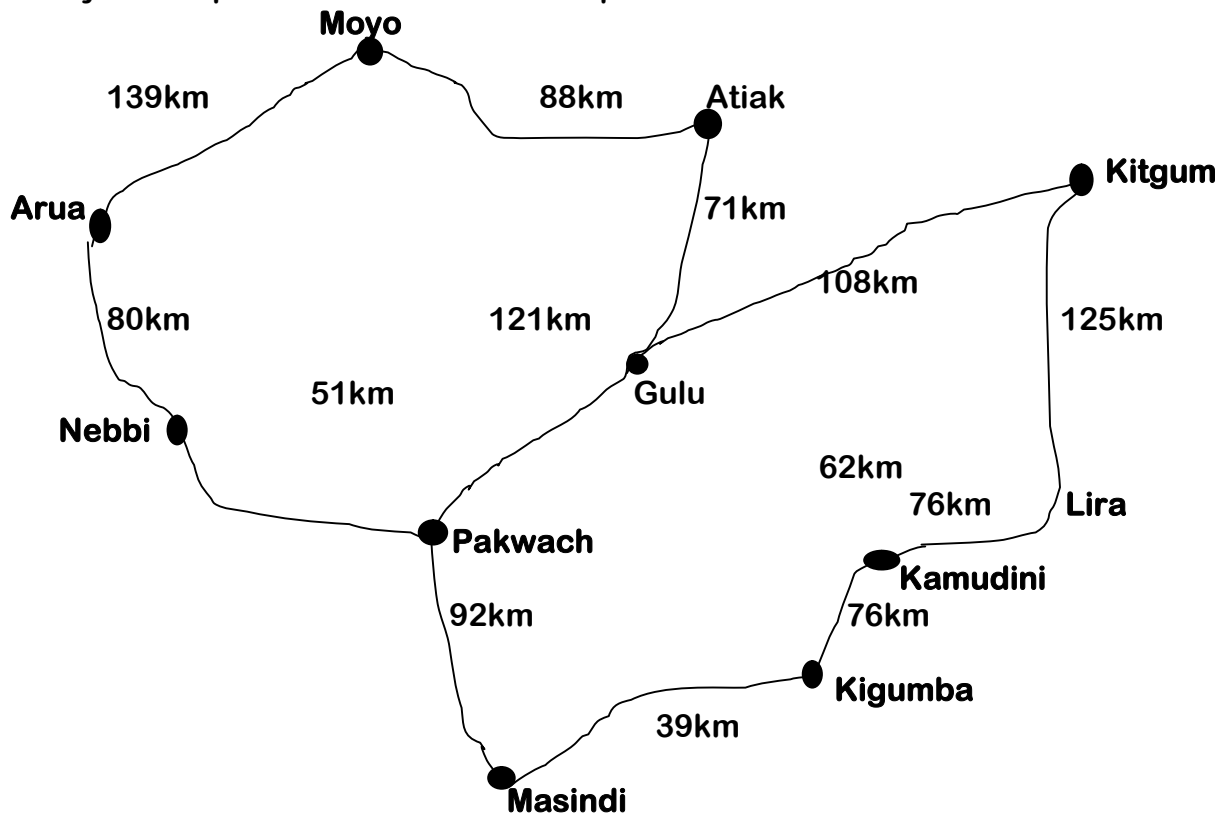
5. John moved from school, passing to the Hospital and continued to the district headquarters. What distance did he cover?

$$18\text{km} + 25\text{km} = 43\text{km}$$

He covered 43km

Activity

Study the map below and answer the questions that follow.



1. How far is Moyo from Nebbi through Arua?

2. How far is Gulu from Masindi through Kigumba?

3. How far is pakwach from Moyo through Atiak?

4. How far is Kitgum from Kigumba through Lira?

5. How far is Lira from Masindi through Kigumba?

6. How far is Kigumba from Kitgum through Gulu and Kamudini?

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Changing kilogrammes to grammes
<u>Competences</u>		
Subject	:	The learner changes kg to g.
Language	:	The learner reads and spells words
Methods	:	Group discussion and guided discovery
Content	:	Changing kilogrammes to grammes

Changing kilogrammes to grammes

$$1\text{kg} = 1000\text{g}$$

Examples

Change the following kg to g

7kg

$$1\text{kg} = 1000\text{g}$$

$$7\text{kg} = 7 \times 1000\text{g}$$

$$\underline{\text{Therefore } 7\text{kg} = 7000\text{g}}$$

21kg

$$1\text{kg} = 1000\text{g}$$

$$21\text{kg} = 21 \times 1000\text{g}$$

$$= 21000\text{g}$$

$$\underline{\text{Therefore } 21\text{kg} = 21000\text{g}}$$

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

$$1\text{kg} = 1000\text{g}$$

$$4 \frac{1}{2} \text{ kg} = \frac{9}{2} \times 1000^{500}\text{g}$$

$$9 \times 500\text{g}$$

$$9 \times 500\text{g}$$

$$4500\text{g}$$

$$\underline{\text{Therefore } 4 \frac{1}{2} \text{ kg} = 4500\text{g}}$$

$$4\text{kg} = 600\text{g}$$

$$1\text{kg} = 1000\text{g}$$

$$4\text{kg} = 4 \times 1000\text{g}$$

$$= 4000\text{g}$$

$$4\text{kg} \quad 600\text{g} = 6000\text{g} + 600\text{g} = 4600\text{g}$$

$$\underline{\text{Therefore } 600\text{g} = 4600\text{g}}$$

Activity

Change the following kg to g

1. 5kg

2. 8kg

3. 12kg

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

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

6. 10kg

7. 11kg

8. 9kg

9. 5 $\frac{1}{4}$ kg

Evaluation

Theme : Measurements
Topic : Length, Mass and Capacity
Subtopic : Changing grammes to kilogrammes
Competences
Subject : The learner changes g to kg
Language : The learner reads words correctly
Methods : Guided discovery and group discussion
Content : Changing grammes to kilogrammes

Changing grammes to kilogrammes

Examples

Change the following grammes to kilogrammes

2000g

1000g = 1kg

2000g = $\frac{2000}{1000}$ kg

= 2kg

Therefore 2000g = 2kg

4500g

1000g = 1kg

4500g = $\frac{4500}{1000}$ kg

= 4.5kg

Therefore 4500g = 4.5kg

29000g

1000g = 1kg

29000g = $\frac{29000}{1000}$ kg

= 29kg

Therefore 29000g = 29kg

$$7500\text{g}$$

$$1000\text{g} = 1\text{kg}$$

$$7500\text{g} = \frac{7500}{1000} \text{kg}$$

$$= 7.5\text{kg}$$

Therefore $7500\text{g} = 7.5\text{kg}$

Activity

Change the following grammes to kilogrammes

1. 6000g
2. 8000g
3. 12000g
4. 10000g
5. 1500g
6. 35000g
7. 3500g
8. 16000g
9. 45000g
10. 70000

Evaluation

Theme : Measurements
 Topic : Length, Mass and Capacity
 Subtopic : Addition of kilograms and grams

Competences

Subject : The learner adds kg and g
 Language : The learner writes correctly
 Methods : Question and answer , Group discussion
 Content : Addition of kilograms and grams

Addition of kilograms and grams

Examples

Add the following kg and g

1.

	<u>KM</u>	g	
	2	250	
+	4	550	+ <u>550</u>
	<u>6</u>	<u>800</u>	<u>800</u>

2.

	<u>KM</u>	<u>g</u>	640	1kg and 400g
	10	640	+ 760	
+	5	760	<u>1400</u>	
	16	400		

3. Tereza's father weighs 53kg 550 and his mother weighs 46kg 850g. Find their total weight.

	<u>KM</u>	<u>g</u>	550	
	53	550	+ 850	100kg and 400g
+	46	850	<u>1400</u>	
	100	400		

4. A farmer took 2 sacks of coffee to the store for sell. One weighs 96kg 480g and other 88kg 776g. Find the total weight of the two bags.

	<u>KM</u>	<u>g</u>	480	
	96	480	+ 770	1kg and 256g
+	88	776	<u>1256</u>	
	185	256		

Therefore - total weight is 185kg 256g

Activity

Add the following kilograms and grams

	<u>KM</u>	<u>g</u>
	24	410
+	58	260

	<u>KM</u>	<u>g</u>
	72	640
+	59	374

	<u>KM</u>	<u>g</u>
	13	240
+	41	300

	<u>KM</u>	<u>g</u>
	96	145
+	56	874

5. Abel had 535kg 50g of salt, he got 4kg 60g more. How much salt has she got altogether?

6. Add: 136kg 268g to 98kg 75g

Evaluation

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Subtract of kg and g
<u>Competences</u>		
Subject	:	The learner subtracts kg and g
Language	:	The learner writes sentences correctly
Methods	:	Questions and answer, group discussion
Content	:	Subtraction of kg and g

Subtraction of kilograms and grams

Examples

	<u>Kg</u>	<u>g</u>
	75	640
-	28	450
	47	190

	<u>Kg</u>	<u>g</u>
	10	750
-	4	340
	6	410

	<u>Kg</u>	<u>g</u>		1000	1423	58
	59	423		+423	-	651
-	39	651		1423		772
	19	772				39
						19

	<u>Kg</u>	<u>g</u>	1000		366	8 0
	81	366	<u>+366</u>	-	<u>424</u>	<u>-3 3</u>
-	<u>33</u>	<u>424</u>	<u>1366</u>		<u>942</u>	<u>4 7</u>
	<u>47</u>	<u>942</u>				

Nakato had 40kg 350g of ghee. She sold 26kg 850 of it. how much ghee did she remain with?

	<u>Kg</u>	<u>g</u>	1000		1350	39
	40	350	<u>+350</u>	-	<u>850</u>	<u>-26</u>
-	<u>26</u>	<u>850</u>	<u>1350</u>		<u>500</u>	<u>1 3</u>
	<u>19</u>	<u>772</u>				

Activity

Subtract the following kg and g

	<u>Kg</u>	<u>g</u>
	94	830
-	<u>85</u>	<u>110</u>

	<u>Kg</u>	<u>g</u>
	72	820
-	<u>31</u>	<u>410</u>

	<u>Kg</u>	<u>g</u>
	42	340
-	<u>31</u>	<u>760</u>

	<u>Kg</u>	<u>g</u>
	78	355
-	<u>24</u>	<u>805</u>

6. Apollo had 38kg 360g of tea. He gave away 17kg 520g of it. How much tea remained?
7. Subtract 41kg 500g from 76kg 130g.

Theme : Measurements
 Topic : Length, mass and capacity
 Subtopic : Multiplication of kg and g

Competences

Subject : The learner multiplies kg and g.
 Language : The learner reads sentences correctly
 Methods : Question and answer, group discussion
 Content : Multiplication of kg and g

Multiplication of kilograms and grams

Examples

Multiply the following kg and g

$$\begin{array}{r}
 \text{Kg} \quad \text{g} \\
 \times \quad 32 \quad 120 \\
 \hline
 289 \quad 80
 \end{array}$$

$$\begin{array}{r}
 120 \\
 \times 9 \\
 \hline
 1080
 \end{array}
 \quad
 \begin{array}{r}
 1\text{kg} \quad 80\text{g} \\
 3 \quad 2 \\
 \times 9 \\
 \hline
 288 \\
 + 289
 \end{array}$$

$$\begin{array}{r}
 \text{Kg} \quad \text{g} \\
 \times \quad 4 \quad 130 \\
 \hline
 12 \quad 930
 \end{array}$$

$$\begin{array}{r}
 310 \\
 \times 3 \\
 \hline
 930
 \end{array}
 \quad
 4 \times 3 = 12$$

$$\begin{array}{r}
 \text{Kg} \quad \text{g} \\
 \times \quad 45 \quad 39 \\
 \hline
 225 \quad 195
 \end{array}$$

$$\begin{array}{r}
 39 \\
 \times 5 \\
 \hline
 195
 \end{array}
 \quad
 \begin{array}{r}
 45 \\
 \times 5 \\
 \hline
 225
 \end{array}$$

$$\begin{array}{r}
 \text{Kg} \quad \text{g} \\
 \times \quad 9 \quad 550 \\
 \hline
 85 \quad 950
 \end{array}$$

$$\begin{array}{r}
 550 \\
 \times 9 \\
 \hline
 4950
 \end{array}
 \quad
 \begin{array}{r}
 9 \times 9 = 81 \\
 + 4 \\
 \hline
 85
 \end{array}$$

4kg 950g

Activity**Multiply the following**

$$\begin{array}{r} \text{Kg} \\ 14 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 150 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 27 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 375 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 8 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 450 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 19 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 170 \\ 4 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 34 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 89 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 134 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 189 \\ 2 \\ \hline \end{array}$$

$$\begin{array}{r} \text{Kg} \\ 10 \\ \times \\ \hline \end{array} \qquad \begin{array}{r} \text{g} \\ 350 \\ 2 \\ \hline \end{array}$$

	<u>Kg</u>	<u>g</u>
	483	830
x		5
	<hr/>	
	<hr/>	

Appreciation

Theme : Measurements
 Topic : Length, Mass and Capacity
 Subtopic : Half and quarter litres

Competences

Subject : The learner finds different parts of quantities
 Language : The learner reads and spells words
 Methods : Guided discovery and group discussion
 Content : Half and quarter litres

Half and quarter litres

Note

1 litre = 2 half litres
 2 litres = 4 half litres
 3 litres = 6 half litres
 1 litre = 4 quarter litres

Examples

1. How many $\frac{1}{2}$ litre bottles are in 2 litre container?

$$\left(\frac{\frac{1}{2}}{\frac{1}{2}} \right) \left(\frac{\frac{1}{2}}{\frac{1}{2}} \right) = 4 \text{ half litre bottles}$$

Or:

1 litre = 2 half litres
 2 litres = (2 x 2) half litres
 = 4 half litres

Therefore, 4 half litres bottles are in 2 litres

2. How many $\frac{1}{4}$ litre bottles are in 5 litres container?

1 litre = 4 half litres
 5 litres = (4 x 5) quarter litres
 = 20 quarter litres

Therefore, 20 quarter litres are in 5 litre bottles

3. Divide 3 litres of milk into $\frac{1}{2}$ litres

1 litre = 2 half litres
 3 litres = (3 x 2) half litres
 3 litres = 6 half litres
 = 3 litres = 6 half litres

4. Namuddu has 6 litres. How many $\frac{1}{2}$ litres has she got?

1 litre = 2 half litres

6 litres = (2 x 6) half litres

= 12 half litres

Therefore, Namuddu has 12 half litres

Activity

1. How many $\frac{1}{4}$ litres are in 2 litres?
2. How many $\frac{1}{2}$ litre bottles are in 5 litre container?
3. How many $\frac{1}{4}$ litre bottles are in 4 litres?
4. Joan has 10 litres of milk. How many $\frac{1}{2}$ litres has she got?
5. Opolot has 8 litres of water. How many quarters does he have?

Theme : Measurements
Topic : Length, Mass and Capacity
Subtopic : Changing litres to milliliters

Competences

Subject : The learner changes l to ml.
Language : The learner spells words correctly
Methods : Group discussion, guided discovery
Content : Changing litres to milliliters

Changing litres to milliliters

1 litre = 1000 millilitres

Examples

Change the following litres to millilitres

1. 2 litres

1 litre = 1000 millilitres

2 litres = (2 x 1000) milliliters

= 2000 millilitres

Therefore, 2 litres = 2000 millilitres

2. 9 litres

1 litre = 1000 millilitres

9 litres = (9 x 1000) milliliters

= 9000 millilitres

Therefore, 9 litres = 9000 millilitres

3. 26 litres

1 litre = 1000 millilitres

26 litres = (26 x 1000) milliliters

= 26000 millilitres

Therefore, 26 litres = 26000 millilitres

4. $3\frac{1}{2}$ litres

1 litre = 1000 millilitres

$$\begin{aligned} 3\frac{1}{2} \text{ litres} &= \left(\frac{7}{2} \times 1000^{500}\right) \text{ milliliters} \\ &= 7 \times 500 \text{ millilitres} \\ &= 3500 \text{ millilitres} \end{aligned}$$

Therefore, $3\frac{1}{2}$ litres = 3500 millilitres

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

1 litre = 1000 millilitres

$$\begin{aligned} 2\frac{1}{2} \text{ litres} &= \left(\frac{5}{2} \times 1000^{500}\right) \text{ milliliters} \\ &= 5 \times 500 \text{ millilitres} \\ &= 2500 \text{ millilitres} \end{aligned}$$

Therefore, $2\frac{1}{2}$ litres = 2500 millilitres

Activity

Change the following to milliliters

1. 5 litres
2. 4 litres
3. 11 litres
4. 17 litres
5. $7\frac{1}{2}$ litres
6. 8 litres
7. 33 litres
8. 10 litres

Theme : Measurments
Topic : Length, Mass and Capacity
Subtopic : Changing milliliters to litres

Competences

Subject : The learner changes ml to l
Language : The learner spells words correctly
Methods : Group discussion and Brain storming
Content : changing milliliters to litres

Changing milliliters to litres

Examples

Change the following to litres

1. 9000ml
 $1000 = 1 \text{ litre}$
 $9000\text{ml} = \frac{9000}{1000} \text{ litres}$
 $= 9 \text{ litres}$

Therefore, 9000ml = 9 litres

2. 11000ml
 $1000 = 1 \text{ litre}$
 $11000\text{ml} = \frac{11\ 000}{1000} \text{ litres}$
 $= 11 \text{ litres}$
Therefore, 11000mls = 11 litres

3. 40ml
 $1000 \text{ ml} = 1 \text{ litre}$
 $400\text{ml} = \frac{400}{1000} \text{ litres}$

Therefore, 11000mls = 11 litres

$\frac{4}{10} = 0.4 \text{ litres}$

4. 700ml
 $1000\text{ml} = 1 \text{ litre}$
 $700\text{ml} = \frac{700}{1000} \text{ litre}$

$\frac{7}{10}$

= 0.7 litre

Therefore 700ml = 07 litre

Activity

Change the following to litres

1. 6000ml
2. 7000ml
3. 12000 ml
4. 10000 ml
5. 18000 ml
6. 200 ml
7. 100 ml
8. 29000 ml

Evaluation

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Addition of litres and milliliters
<u>Competences</u>		
Subject	:	The learner adds litres and millilitres
Language	:	The learner writes properly
Methods	:	Group discussion and Guided discovery

Content : Addition of litres and milliteres

Addition of litres and milliliters

Examples

Add the following

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 7 \quad 250 \\ + 2 \quad 400 \\ \hline 9 \quad 650 \end{array}$$

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 10 \quad 780 \\ + 2 \quad 420 \\ \hline 14 \quad 200 \end{array} \quad \begin{array}{r} 780 \\ + 420 \\ \hline 1200 \end{array}$$

11 and 200ml

A baker used 4 litres 570ml of cooking oil. She later used another 15 litres 110ml more. How much oil did she use?

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 4 \quad 570 \\ + 15 \quad 110 \\ \hline 19 \quad 680 \end{array} \quad \text{She used 19l 680ml of the oil}$$

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 16 \quad 720 \\ + 8 \quad 250 \\ \hline 24 \quad 970 \end{array}$$

Activity

Add the following

$$\begin{array}{r} \text{l} \quad \text{ml} \\ 14 \quad 495 \\ + 23 \quad 250 \\ \hline \end{array}$$

	l	ml
	15	360
+	22	480

	l	ml
	12	570
+	8	430

	l	ml
	19	750
+	3	147

	l	ml
	14	360
+	7	415

	l	ml
	9	450
+	8	380

A petrol tank contains 500 litres 900ml and a diesel tank contains 250l 700ml. How much fuel is there now?

Evaluation

Theme	:	Measurements
Topic	:	Length, Mass and Capacity
Subtopic	:	Subtraction of l and ml
<u>Competences</u>		
Subject	:	The learner subtracts l and ml
Language	:	The learner reads properly

Methods : Group discussion and Guided discovery

Content : Subtraction of litres and milliliters

Subtraction of litres and millilitres

Examples

Subtract the following

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 9 \qquad 200 \\ - 3 \qquad 300 \\ \hline 5 \qquad 900 \end{array}$$

$$\begin{array}{r} 1000 \\ + 200 \\ \hline 1200 \\ - 300 \\ \hline 900 \end{array}$$

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 12 \qquad 750 \\ - 6 \qquad 550 \\ \hline 6 \qquad 200 \end{array}$$

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 28 \qquad 640 \\ - 19 \qquad 780 \\ \hline 8 \qquad 860 \end{array}$$

$$\begin{array}{r} 1000 \\ + 640 \\ \hline 1640 \\ - 780 \\ \hline 860 \end{array}$$

$$\begin{array}{r} 27 \\ - 19 \\ \hline 8 \end{array}$$

Activity

Subtract the following

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 3 \qquad 330 \\ - 1 \qquad 240 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 9 \qquad 670 \\ - 2 \qquad 940 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l} \qquad \text{ml} \\ 33 \qquad 250 \\ - 20 \qquad 740 \\ \hline \end{array}$$

	l	ml
	7	105
-	3	850

	l	ml
	17	850
-	15	410

	l	ml
	6	340
-	5	320

Theme : Algebra
 Topic : Equations
 Subtopic : Finding unknown involving addition

Competences

Subject : The learner finds unknown
 Language : The learner reads and writes the work
 Methods : Guided discovery, Brain storming and group discussion
 Content : Finding unknown involving addition

Finding unknown involving addition

Examples

Find the missing numbers

$$\square + 3 = 9$$

$$\square + 3 - 3 = 9 - 3$$

$$\square + 0 = 6$$

$$\square = 6$$

$$\square + 23 = 47$$

$$\square + 23 - 23 = 47 - 23$$

$$\square + 0 = 24$$

$$\square = 24$$

$$\square + 80 = 106$$

$$\square + 80 - 80 = 106 - 80$$

$$\square + 0 = 26$$

$$\square = 26$$

$$6 + \square = 9$$

$$6 - 6 + \square = 18 - 6$$

$$0 + \square = 12$$

$$\square = 12$$

Solve the following

$$x + 4 = 6$$

$$x + 4 = 6$$

$$x + 4 - 4 = 6 - 4$$

$$x + 0 = 2$$

$$x = 2$$

$$P + 12 = 21$$

$$P + 12 = 21$$

$$P + 12 - 12 = 21 - 12$$

$$P + 0 = 9$$

$$P = 9$$

Activity

Fill in the missing numbers

a) $\square + 4 = 7$

b) $\square + 8 = 10$

c) $\square + 17 = 28$

d) $\square + 18 = 42$

e) $10 + \square = 32$

f) $12 + \square = 28$

g) $34 + \square = 62$

Solve the following equations

a) $M + 4 = 9$

b) $P + 6 = 13$

c) $E + 8 = 18$

Evaluation

Theme : Algebra
Topic : Equations
Subtopic : Finding the missing number in subtraction

Competences

Subject : The learner finds the missing number
Language : The learner writes the given work
Methods : Question and answer, group discussion
Content : Finding the missing number in subtraction

Finding the missing numbers in subtraction

Examples

Fill in the missing number

$$\square - 8 = 15$$

$$\square - 8 = 15$$

$$\square - 8 + 8 = 15 + 8$$

$$\square + 0 = 23$$

$$\square = 23$$

$$\square - 27 = 12$$

$$\square - 27 = 12$$

$$\square - 27 + 27 = 12 + 27$$

$$\square + 0 = 39$$

$$\square = 29$$

$$7 - \square = 5$$

$$7 - \square = 5$$

$$7 - \square + \square = 5 + \square$$

$$7 + 0 = 5 + \square$$

$$7 = 5 + \square$$

$$7 - 5 = 5 - 5 + \square$$

$$2 = 0 + \square$$

$$2 = \square$$

$$\square = 2$$

$$18 - \square = 11$$

$$18 - \square = 11$$

$$18 - \square + \square = 11 + \square$$

$$18 + 0 = 11 + \square$$

$$18 = 11 + \square$$

$$18 - 11 = 11 - 11 + \square$$

$$7 = 0 + \square$$

$$7 = \square$$

$$\square = 7$$

$$9 - \square = 6$$

$$9 - \square = 6$$

$$9 - \square + \square = 6 + \square$$

$$\square$$

$$9 + 0 = 6 +$$

$$9 = 6 + \boxed{}$$

$$9 - 6 = 6 - 6 + \boxed{}$$

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

$$3 = \boxed{}$$

$$\boxed{} = 3$$

Solve for P

$$P - 9 = 13$$

$$P - 9 = 13$$

$$P - 9 + 9 = 13 - 9$$

$$P + 0 = 4$$

$$P = 4$$

Activity

Fill in the missing numbers

1. $\boxed{} - 10 = 21$

2. $\boxed{} - 22 = 30$

3. $\boxed{} - 34 = 48$

4. $14 - \boxed{} = 8$

5. $37 - \boxed{} = 21$

6. $40 \boxed{} = 19$

7. $78 - \boxed{} = 36$

Solve the following

8. $X - 5 = 7$

9. $n - 8 = 15$

10. $y - 28 = 51$

Evaluation

Theme : Algebra

Topic : Equations
Subtopic : Finding missing factors (multiplication)
Competences
Subject : The learner finds missing factors
Language : The learner reads sentences well
Methods : Guided discussion and group discovery
Content : Finding missing factors

Finding missing factors

Examples

Fill in the missing numbers

$$3 \times \square = 12$$

$$3\square = 12$$

$$\begin{array}{r} 3\square \\ \hline 3 \end{array} = \frac{12^4}{3_1}$$

$$= 4$$

$$4 \times \square = 20$$

$$4 \times \square = 20$$

$$4\square = 20$$

$$\begin{array}{r} 4\square \\ \hline 4 \end{array} = \frac{20^5}{4_1}$$

$$= 5$$

$$\square \times 4 = 32$$

$$\square \times 4 = 32$$

$$4\square = 32$$

$$\begin{array}{r} 4\square \\ \hline 4 \end{array} = \frac{32^8}{4_1}$$

$$= 8$$

$$y \times 6 = 24$$

$$y \times 6 = 24$$

$$6y = 24$$

$$\frac{6y}{6} = \frac{24}{6}$$

$$y = 4$$

$$m \times 3 = 9$$

$$m \times 3 = 9$$

$$3m = 9$$

$$\frac{3m}{3} = \frac{9}{3}$$

$$y = 3$$

Activity

Fill in the missing numbers

1. $4 \times \square = 28$

2. $6 \times \square = 30$

3. $11 \times \square = 77$

4. $\square \times 8 = 40$

5. $\square \times 4 = 48$

6. $\square \times 10 = 90$

7. $\square \times 6 = 96$

Solve the following

8. $n \times 5 = 80$

9. $p \times 10 = 70$

10. $y \times 9 = 54$

Evaluation

Theme	:	Algebra
Topic	:	Equations
Subtopic	:	Finding the missing number in division
Competences		
Subject	:	The learner finds the missing numbers
Language	:	The learner reads and writes words correctly
Methods	:	Brain storming, group discussion
Content	:	Finding the missing number in division

Finding the missing number in division

Examples

Fill in the missing numbers

$$\square \div 4 = 12$$

$$\frac{\square}{4} = 12$$

$$\frac{\square}{4} \times 4^1 = 12 \times 4$$

$$\square = 48$$

$$\square \div 7 = 4$$

$$\frac{\square}{7} = 4$$

$$\frac{\square}{7} \times 7^1 = 4 \times 7$$

$$\square = 28$$

$$\frac{\square}{2} = 10$$

$$\frac{\square}{2} \times 2^1 = 10 \times 2$$

$$\square = 20$$

$$20 \div \square = 5$$

$$\frac{20}{\square} = 5$$

$$\frac{20^4}{5_1} \times \frac{5^1}{5_1}$$

$$4 = \square$$

Activity

1. $\square \div 5 = 30$

2. $\square \div 6 = 42$

3. $\square \div 7 = 35$

4. $\square \div 8 = 56$

5. $15 \div \square = 5$

6. $60 \div \square = 5$

7. $48 \div \square = 8$

8. $18 \div \square = 6$

Evaluation

Theme : Algebra
Topic : Equations
Subtopic : Collecting like terms

Competences

Subject : The learner collects like terms
Language : The learner creates simple equations
Methods : Brain storming
Content : Collecting like terms

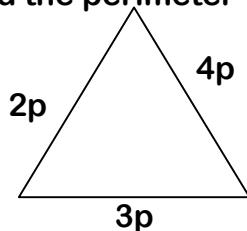
Collecting like terms

Examples

1. Add: $3b + 4b$
 $3b + 4b$
 $= 7b$

2. Subtract: $7x + 8x + x$
 $7x + 8x + x$
 $= 16x$

3. Find the perimeter



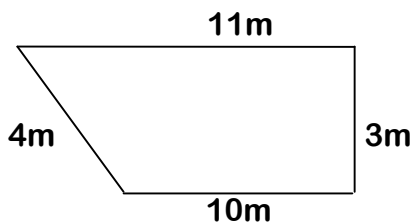
$$P = S + S + S$$

$$P = 2p + 4p + 3p$$

$$P = qp$$

$$\text{Perimeter} = qp$$

4. Find the perimeter



$$P = S + S + S + S$$

$$P = 11m + 10m + 3m + 4m$$

$$P = 28m$$

$$\text{Perimeter} = 28m$$

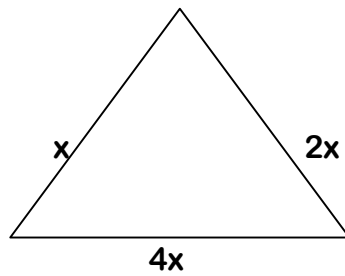
Activity

Collect the following like terms

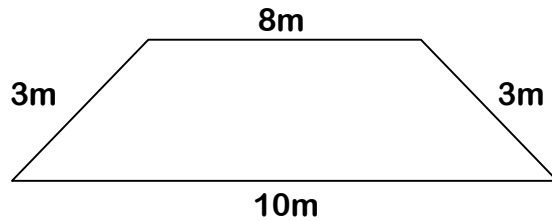
1. $2p + 4p$
2. $89a + 8a$
3. $20w + 11w$
4. $17m + 13m$
5. $8k + 2k$
6. $20d + 11d - 5d$

Find the perimeter of the following

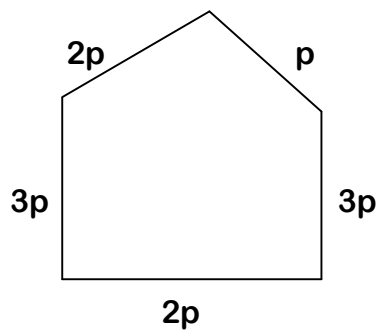
7.



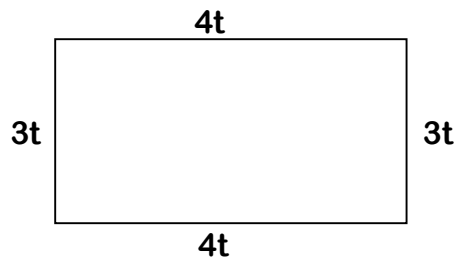
8.



9.



10.



Evaluation

Theme	:	Algebra
Topic	:	Equations
Subtopic	:	Collecting more like terms
<u>Competences</u>		
Subject	:	The learner collects like terms
Language	:	The learner reads and writes the work
Methods	:	Group discussion and guided discovery

Content : Collecting more like terms

Collecting more like terms

Examples

1. Collect like terms

$$X+Y+X+3Y+X$$

$$X+Y+X+3Y+X$$

$$X + X + X + Y + 3Y$$

$$3X + 4Y$$

2. Collect like terms

$$a + b + a + b$$

$$a + a + b + b$$

$$2a + 2b$$

3. Collect like terms

$$9c + 2p + 8c + p$$

$$9c + 2p + 8c + p$$

$$9c + 8c + 2p + p$$

$$17c + 3p$$

4. $4p + 3x + 2p + 8x$

$$4p + 2p + 3x + 8x$$

$$6p + 11x$$

Activity

Collect the following like terms

1. $2y + x + y + y$

2. $A + b + 2a + b$

3. $2x + y + x + y$

4. $B + c + b + c$

5. $9y + 5x + 2y + 5x$

6. $6p + 5t + 2t + 8k$

7. $6x + 2y + 3x + 5y$

Evaluation

Theme : Algebra

Topic : Equation

Subtopic : Substitution

Competences

Subject : The learner replaces the letter by a number

Language : The learner spells words correctly

Methods : Brain storming, discussion

Content : Substitution

Substitution

Substitution means to replace

Examples

1. If $P = 3$. What is the value of $P + 4$?

$$\begin{aligned} P + 4 \\ 3 + 4 \\ = 7 \end{aligned}$$

2. If $g = 5$. Find the value of $8 - g$

$$\begin{aligned} 8 - g \\ 8 - 5 \\ = 3 \end{aligned}$$

3. If $x = 3$, $y = 4$, $z = 5$. Find the value of

a) $X + Y$
 $3 + 4 = 7$

b) YZ
 $Y \times Z$
 $4 \times 5 = 20$

c) $Z - X$
 $Z - X$
 $5 - 3 = 2$

d) $2x + 2y$
 $2x + 2y$
 $(2 \times X) + (2 \times Y)$
 $(2 \times 3) + (2 \times 4)$
 $6 + 8 = 14$

Activity

1. If $a = 2$, $b = 3$ and $c = 4$. Find the value of

i) $a + b + c$
ii) $a + b - c$
iii) $a + c - b$
iv) ab
v) $c + a$
vi) $c - b$
vii) $\frac{c}{a}$

2. If $a = 9$. Find the value of $2 \cdot xa$

Evaluation

Theme : Algebra
Topic : Equations
Subtopic : Forming equation and solving

Competences

Subject : The learner forms equations
Language : The learner reads the given sentences
Methods : Brain storming and guided discovery
Content : Forming and solving equations

Forming and solving equations

Examples

1. Wamala had some books. He got 3 more books. Altogether he had 7 books. How many books did he have before?

Let the number of books be y .

$$y + 3 = 7$$

$$y + 3 - 3 = 7 - 3$$

$$y + 0 = 4$$

$$y = 4$$

Therefore, he had 4 books before

2. When I multiply a number by 7, I get 35. What is the number?

Let the number be P .

$$P \times 7 = 35$$

$$7P = 35$$

$$\frac{7P}{7} = \frac{35}{7}$$

$$P = 5$$

$$P = 5$$

Therefore, the number is 5

3. I think of a number, when I add 5 to it, it becomes 8. What is the number?

Let the number be n

$$n + 5 = 8$$

$$n + 5 - 5 = 8 - 5$$

$$n + 0 = 3$$

$$n = 3$$

Therefore, the number is 3

Activity

1. I think of a number, when I subtract 6 from it, it becomes 10. What is the number?
2. There were some eggs in a nest. A bird laid 5 more eggs. Altogether there were 13 eggs. How many eggs were there before?
3. When Naiga spent sh. 150. She had sh. 200 left. How much money had she before?
4. I think of a number, when it is multiplied by 2, it becomes 8. What is the number?

Evaluation