Week Ending: 06	-04-2023	DAY:		Subject: Mathematics		
Duration: 60MINS	5			Strand: Number		
Class: B8		Class Size:	:	Sub Strand: Fractions		
on fractions to solv fractions of given que results to given dec Performance Ind Learners can review basic operations on	1.3.1 Apply the understanding of operation fractions to solve problems involvingIn B8			eview fractions and solve problems ic operations on fractions Core Competencies: Communication and Collaborati Thinking and Problem solving (C	I of I on (CC) Critical	
Phase/Duration PHASE I: STARTER	Learners Act Engage learne Example: I ha transport. Ho Learners in p	Resources				
PHASE 2: NEW LEARNING	to share their answers with the class. Share performance indicators and introduce the lesson. Review the concept of fractions. Engage learners to shade given fraction of squares in a shape or find the fraction shaded in the shape: i.e. shade $\frac{3}{4}$ of the rectangle.				Counters, bundle and loose straws base ten cut square, Bundle of sticks	
	Learners in the Write down of fractions. So $\frac{2}{3} = \frac{4}{6}, \frac{6}{9}, \frac{1}{2}$ Demonstrate Find a common denominator $\frac{1}{10} = \frac{3}{5}$ Have learners					

	I. $\frac{6}{10}$ 4. $\frac{4}{12}$ 2. $\frac{12}{18}$ 5. $\frac{8}{14}$ 3. $\frac{16}{20}$ Guide learners to express fractions as a mixed number.Example $\frac{12}{5} = 2\frac{2}{5}$
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.

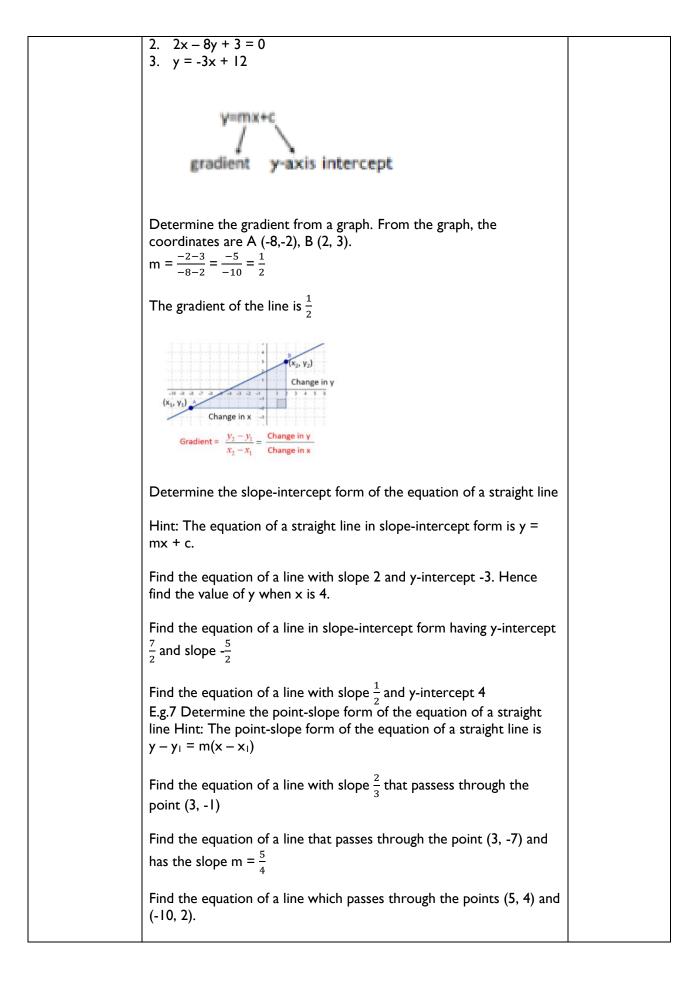
Week Ending: 06	DAY:		Subject: Mathematics		
Duration: 60MINS	5			Strand: Number	
Class: B8		Class Size:	:	Sub Strand: Fractions	
on fractions to solv fractions of given qu results to given dec Performance Ind	pply the understanding of operation hs to solve problems involving of given quantities and round the given decimal and significant places.Indicator: B8.1.3.1.1 Review fractions and solve problems involving basic operations on fractionsance Indicator: an review fractions and solve problems involving ations on fractionsCore Competencies: Communication and Collaboration Thinking and Problem solving (CP)				
Phase/Duration PHASE I: STARTER	Learners Acti Let learners de	ivities etermine the i	missing number	r in the box	Resources
		9 21 ? nance indica			
PHASE 2: NEW LEARNING	3539?Share performance indicators and introduce the lesson.Review the basic operations on fractions.Write an addition problem on the board $\frac{4}{13} + \frac{2}{13}$ Ask learners to observe the problems carefully. Guide them to note that they have the same denominator but different numerators.Learners in pairs solve the problem and present their answers to the class.When the fractions have the same denominator, we add the numerators and write the sum all over the same denominatorExample: $\frac{4}{13} + \frac{2}{13} = \frac{4+2}{13} = \frac{6}{13}$ Write two more examples on the board and let learners work in pairs. $1, \frac{9}{15} + \frac{6}{15}$ $2, \frac{4}{5} + \frac{3}{5}$ Write on the board. $\frac{3}{4} + \frac{1}{8}$. Guide learners to add fractions with different denominators.To subtract fractions with different denominator that is the same. First we				Counters, bundle and loose straws base ten cut square, Bundle of sticks

	We must change the numerators and denominators before we can add
	the fractions. The new denominator will be the LCM, 8. We will rewrite each fraction as an equivalent fraction with denominator 8.
	Solve the problem on the board: $\frac{3}{4} + \frac{1}{8} = \frac{6}{8} + \frac{1}{8} = \frac{6+1}{8} = \frac{7}{8}$
	Learners subtract the following fractions and simplify their answers. 1. $\frac{4}{5} - \frac{3}{5}$ 2. $\frac{6}{7} - \frac{4}{7}$ 3. $\frac{3}{4} - \frac{3}{4}$ 4. $\frac{2}{4} - \frac{2}{3}$ 5. $\frac{3}{4} - \frac{1}{3}$
	Multiplying a whole number by a fraction, e.g. $5 \times \frac{2}{3}$ or finding five two-thirds means $\frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{10}{3} = 3\frac{2}{3}$ To multiply a whole number by a mixed fraction (e.g. $3 \times 2\frac{2}{3}$) one can multiply the whole number by the whole number and then whole number by the fraction and add the products or change the mixed fraction to improper
	fraction and multiply; i.e. $3 \times 2\frac{2}{3} = (3 \times 2) + (3 \times \frac{2}{3})$ $= 6 + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = 6\frac{6}{3}$
	To multiply a whole number by a fraction (e.g. $3 \times 2\frac{2}{3}$) first change all into common fractions, then multiply the numerators separately and multiply the denominators separately and simplify; i.e. $3 \times 2\frac{2}{3} = \frac{3}{1} \times \frac{8}{3} = \frac{3X8}{1X3} = 3\frac{24}{3} = 8$
	Multiplying a fraction by a whole number the multiplication is interpreted as "of"; e.g. $\frac{2}{3} \times 5$ means shade $\frac{2}{3} of 5$;
	i.e. finding two-thirds of each of five objects; i.e. $\frac{2}{3} \times 5$ can be illustrated by
	shading $\frac{2}{3}$ of 5 sheets of paper, which leads to the shading of 10 thirds, $\frac{2}{3} \times 5 = \frac{2}{3}$ of 5 = 10 $(\frac{1}{3}) = \frac{10}{3} = 3\frac{1}{3}$
	To multiply a mixed fraction by a whole number (e.g. $4 \frac{4}{5} \times 5$) First change all into common fractions, then multiply the numerators separately and multiply the denominators separately and simplify; i.e. $4 \frac{4}{5} \times 5 = \frac{24}{5} \times \frac{5}{1} = \frac{120}{5} = \frac{24}{1} = 24$
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 14-04-2023 DAY: Subjet				Subject: Mathematics	Subject: Mathematics		
Duration: 60MINS				Strand: Number			
Class: B8		Class Size:		Sub Strand: Powers Of Natur	al Numbers		
Content Standard: B8.1.2.3 Demonstrate understanding and the use of the laws of indices in solving problems involving powers of natural numbers				olve real life problems involving natural numbers.	Lesson: I of 2		
Performance Ind Learners can solve natural numbers		ems involving	powers of	Core Competencies: Communication and Collaboratio Thinking and Problem solving (CF			
References: Math	ematics Curric	ulum Pg. 102	2				
		• •,•			D		
Phase/Duration PHASE 1:	Learners Act				Resources		
STARTER	Revise with le	earners on th	ne previous le	255011.			
STARTER	Share perforr lesson.	mance indica	tors with lea	rners and introduce the			
PHASE 2: NEW LEARNING	 problems invel A person meters w Solution: The and width, so Therefore, th 2. A car transition the speed and x 3 h = 180 k Therefore, the and the set of t	e learners to solve exponential equations and Solve real life ems involving powers of natural numbers a person has a piece of land that is 50 meters long and 30 neters wide. How many square meters is the land? ion: The area of the land is given by the product of its length width, so we have: Area = 50 m x 30 m = 1500 m ² efore, the land has an area of 1500 square meters. A car travels at a speed of 60 km/h for 3 hours. How far does he car travel? ion: The distance travelled by the car is given by the product of eed and time, so we have: Distance = Speed x Time = 60 km/h = 180 km efore, the car travels 180 kilometers. A building has 10 floors, each with a height of 3 meters. How igh is the building? ion: The total height of the building is given by the product of eight of each floor and the number of floors, so we have: ht = 10 x 3 m = 30 m efore, the building is 30 meters high. A recipe calls for 2 cups of flour, 1/2 cup of sugar, and 1/4 cup of utter. If you want to make twice the recipe, how much flour do					

	 5. A container of juice contains I liter of juice. If we pour 1/4 of the juice into a glass, how much juice is left in the container? Solution: If we pour 1/4 of the juice into a glass, we are left with 3/4 of the juice in the container. So we have: Juice left in container = 1 L x 3/4 = 0.75 L Therefore, there is 0.75 liters of juice left in the container 	
	<u>Assessment</u> Guide learners to solve real-life problems on populations.	
	While studying her family's history, Saratu discovers records of ancestors 12 generations back. She wonders how many ancestors she has had in the past 12 generations. She starts to make a diagram to help her figure this out. The diagram soon becomes very complex	
	Through illustrations, make a table and a graph showing the number of ancestors in each of the 12 generations. ii. Write an equation for the number of ancestors in a given generation n.	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 4	-04-2023	DAY:		Subjec	ct: Mathematics		
Duration: 60MINS	5			Strand	1: Algebra		
Class: B8		Class Size:		Sub St	trand: The Gradient Of	A Line	e
for a linear relation plane, determine th write equation of a	ent Standard: .1 Demonstrate the ability to draw table of values inear relation, graph the relation in a number determine the gradient of the line and use it to equation of a line of the form y = mx + c.Indicator: B8.2.1.1.1 Calculate the gradient of line and use it to write equation of 						Lesson: 2 of 2
Learners can calcul equation of a line	-	it of a line and use it = mx + c	to wr	ite	Communication and Coll Critical Thinking and Pro		
References: Math	ematics Curric	ulum Pg. 112					
Phase/Duration PHASE 1: STARTER	Share perform	earners on the previ			d introduce the	Resc	ources
PHASE 2: NEW LEARNING	discover the The gradient climbing is. T the building. Determine th The formula $\frac{y_2}{y_1}$ $\frac{dy}{dx} = \frac{y_2 - y_1}{x_2 - x_1}$ Determine th Find the grad i. A (1, 1) and 4)	Determine the formula for calculating the gradient of a line. The formula for calculating the gradient of a straight. $ \frac{4y}{4x} = \frac{y^2 - y^1}{x^2 - x^1} $ Determine the gradient when given two coordinates. Find the gradient of a line which passes through the point; i. A (1, 1) and B (7, 2) ii. P (-2, 4) and Q (3, 5) iii. C (3, -2) and D (-3, 4) Determine the gradient of a straight line when its equation is given.					

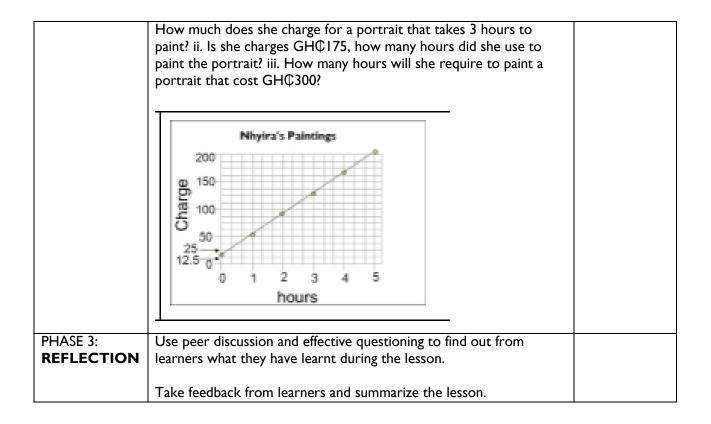


	Write the equation $5x + 4y - 3 = 0$ in the form $y = mx + c$. Hence state the gradient and the intercept.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 14-04-2023 DAY: Subj					atics
Duration: 60MINS				Strand: Number	
Class: B8		Class	Size:	Sub Strand: Linea	ar Relations
Content Standar B8.2.1.1 Demonst draw table of valu relation	Lesson: I of 2				
Performance Ind Learners can use missing elements	c ies: d Collaboration ing and Problem				
References: Math	ematics Curric	ulum Pg	g. 115-116		
Phase/Duration PHASE 1: STARTER	Share perform	arners	on the previous lesson. ndicators with learners and int	roduce the	Resources
PHASE 2: NEW LEARNING	Guide learner subsequent relation. Write a samp solution. Use information The graph rep Ghana cedis)	Share performance indicators with learners and introduce the lesson. Guide learners to use graph of a linear relation to determine subsequent missing elements in the ordered pairs of the relation. Write a sample question on the board and take learners through its solution. Use information from a graph to find missing elements. The graph represents the relation $yy=20xx$, where y is the cost (in Ghana cedis) of the weight (in kilograms) of meat sold in a market.			

	iii. Using the relation from the graph, how many kilograms of meat can be bought at a cost of GHC240. Use information from a graph to find missing element.
	Use the graph to complete the table below
	X (years) 0 10 20 30 50
	Y (diameter)
	What will be the diameter of the tree in 100 years?
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 4	-04-2023	DAY:	Sub	ject	t: Mathematics		
Duration: 60MINS	5		Stra	nd	: Algebra		
Class: B8		Class Size:	Sub	Str	rand: Linear Relations		
values for a linear Performance Ind Learners can use g problems	trate the ability to draw table of relation B8.2.1.1.3 Use graphs of linear relation to solve real life problems					aborat	```
Phase/Duration	Learners Acti	vitios				Rose	ources
PHASE I: STARTER	Revise with le	earners on the previous on the previous of the			l introduce the	Kesc	Juices
PHASE 2: NEW LEARNING	Guide learner problems. Write a samp solution. Every mornin modelled by the kilometers an Make a table how far you'w Copy and cor Distance Time Time (minute) 100 100 100 100 100 100 100 100 100 10	ble question on the ble ag, you go for a walk the equation $d = \frac{1}{2}h$ ad h is the number of for the relation and we walked after 6 hour mplete the table for 1 2 Distance (km)	for a living how long in	nce is thu've ph	he distance walked in e walked. with the values to see	loose base	le and straws ten cut re, Bundle



Week Ending: 28	-04-2023	DAY:	Subject: Mathematics		
Duration: 60MINS	5		Strand: Number		
Class: B8		Class Size:	Sub Strand: Algebraic	Expressions	
Content Standar B8.2.1.1 Demonst to draw table of v linear relation	rate the ability values for a	Lesson: on I of 2			
	the distributive	e property to remove of binomial expression	Core Competencies: Communication and Colla Critical Thinking and Prob		
References: Math	ematics Curric	ulum Pg. 115-116			
Phase/Duration PHASE 1: STARTER	Learners Acti Revise with le	vities earners on the previous lesson.		Resources	
PHASE 2: NEW LEARNING	lesson. Guide learner	Share performance indicators with learners and introduce the lesson.Guide learners to explain Expanding expression.Expanding expression is a way of removing brackets or parenthesis from an expression.To expand a given expression; Multiply every term inside the brackets by the term outside the brackets. Change the operators accordingly and combine the terms.			
	To expand a g Multiply every brackets. Change the o				
	Write this qu Expand -5x (3) Solution -5x(3x + 4) = = -15x ² - 20x So the expand				
	Let learners s a) 3(x + 4) - b) 2(6-5x) -				
	Solution To simplify 3(the terms insi				
		(-5) = 3x + 12 - 2x + 10 combine like terms:			

	3x - 2x + 12 + 10 = x + 22
	Therefore, the simplified form of $3(x + 4) - 2(x - 5)$ is $x + 22$.
	Guide learners to multiply binomial expressions.
	To multiply two binomial expressions, you can use the FOIL
	method, which stands for First, Outer, Inner, Last.
	1. Multiply the first term of each binomial together.
	2. Multiply the outer terms of each binomial together.
	3. Multiply the inner terms of each binomial together.
	4. Multiply the last term of each binomial together.
	5. Add the results of steps 1-4 to obtain the final product.
	Write this example on the board and let learners solve in pairs: (3x + 2)(2x - 5)
	Using the FOIL method, we get:
	First: $(3x)(2x) = 6x^2$
	Outer: $(3x)(-5) = -15x$
	Inner: $(2)(2x) = 4x$
	Last: $(2)(-5) = -10$
	Adding the results of steps 1-4, we get:
	$6x^2 - 15x + 4x - 10$
	Simplifying, we get:
	6x ² - 11x - 10
	Therefore, the product of $(3x + 2)(2x - 5)$ is $6x^2 - 11x - 10$.
	Learners work in groups to solve the following.
	a) $(y+3)(y+7)$
	b) $(k-4)(k+10)$
	c) $(2x+5)(3x-1)$
	d) (x-5) (6x+12)
	e) (2t+3) (3t-1)
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 28	-04-2023	DAY:	Subject: Mathematics	
Duration: 60MINS	;		Strand: Number	
Class: B8		Class Size:	Sub Strand: Algebraic	Expressions
Content Standard: B8.2.1.1 Demonstrate the ability to draw table of values for a linear relation		Indicator: B8.2.2.1.1 Use the distributiv brackets and solve multiplicat		Lesson: on I of 2
	the distributive e multiplication	property to remove of binomial expression	Core Competencies: Communication and Collal Critical Thinking and Prob	
References. Flath	cinatics Curric			
Phase/Duration PHASE 1: STARTER	Share perforn	earners on the previous lesson.	and introduce the	Resources
PHASE 2: NEW LEARNING	Guide learner To multiply two stands for First 1. Multiply the 2. Multiply the 3. Multiply the 4. Multiply the 5. Add the resu Write this exe (3x + 2)(2x - 1) Using the FOI First: $(3x)(2x)$ Outer: $(3x)(-5) =$ Adding the re $6x^2 - 15x + 4x$ Simplifying, we $6x^2 - 11x - 10$ Therefore, the	(k-4) (k+10)		Counters, bundle and loose straws base ten cut square, Bundle of sticks

	Solution
	To solve the expression $(y+3)(y+7)$, we can use the FOIL method:
	First: $y * y = y^2$
	Outer: y * 7 = 7y
	Inner: $3 * y = 3y$
	Last: 3 * 7 = 21
	Putting all of the results together, we get:
	$y^2 + 7y + 3y + 21$
	Simplifying, we get:
	$y^2 + 10y + 21$
	Therefore, $(y+3)(y+7)$ simplifies to $y^2 + 10y + 21$.
	To solve the expression $(2x+5)(3x-1)$, we can use the FOIL method:
	First: $2x * 3x = 6x^{2}$
	Outer: $2x * (-1) = -2x$
	Inner: $5 * 3x = 15x$ Last: $5 * (-1) = -5$
	Last. $5^{-1}(-1) = -5$
	Putting all of the results together, we get:
	$6x^2 - 2x + 15x - 5$
	Simplifying, we get:
	$6x^2 + 13x - 5$
	Therefore, $(2x+5)(3x-1)$ simplifies to $6x^2 + 13x - 5$.
	Assessment
	Expand and simplify the following
	a) $(k + 2m)^2$
	b) $(2n + 3)^2$
	c) $(4x + 5)^2$
	d) (x - 6)(x - 6) e) (h+8)(h-8)
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.
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Week Ending: 05	-05-2023	DAY:	Subject: Mathematics	
Duration: 60MINS			Strand: Number	
Class: B8		Class Size:	Sub Strand: Addition, Algebraic Expressions	Subtraction Of
Content Standard: B8.2.1.1 Demonstrate the ability to draw table of values for a linear relation		Indicator: B8.2.2.1.2 Perform addition, and division of algebraic expr		
	orm addition, s	ubtraction, multiplication and including fractions	Core Competencies: Communication and Colla Critical Thinking and Prob	· · ·
References: Math	ematics Curric	ulum Pg. 115-116		
Phase/Duration	Learners Acti	vitios		Resources
PHASE I:		earners on the previous lesson.		Nesources
STARTER		nance indicators with learners a	and introduce the	
PHASE 2: NEW LEARNING	division of alg To use the PE Simplify a Perform r Perform r Perform a Write an examplify $10x^2$ Solution To simplify $10x^2$ Simplify any e (6x - 4x) = 2x $(5x - 2x)^2 = (12)^2$ Now the exp $10x^2 + 2x - 9x^2$ $10x^2 - 9x^2 + 2x$ $= x^2 + 2x$. Therefore, th	Guide learners to solve addition, subtraction, multiplication and division of algebraic expression using the PEDMAS strategy.Cou bun loosTo use the PEMDAS strategy, follow these steps: • Simplify any expressions inside parentheses first. • Evaluate any exponents next. • Perform multiplication and division, from left to right. • Perform addition and subtraction, from left to right.Simplify any expressions inside parentheses first. • Perform addition and subtraction, from left to right.Write an example on the board and task learners to work in pairs. Simplify $10x^2 + (6x-4x) - (5x - 2x)^2$ Solution To simplify the expression $10x^2 + (6x-4x) - (5x - 2x)^2$ using the PEMDAS strategy, we follow the order of operations as follows:Simplify any expressions inside parentheses first: $(6x - 4x) = 2x$ $(5x - 2x)^2 = (3x)^2 = 9x^2$. Now the expression becomes: $10x^2 + 2x - 9x^2$ $10x^2 - 9x^2 + 2x$ $= x^2 + 2x$. Therefore, the simplified expression is $x^2 + 2x$. Example 2: solve $(7y-5y)^2 - 2(10y-8y) + 4y$		Counters, bundle and loose straws base ten cut square, Bundle of sticks

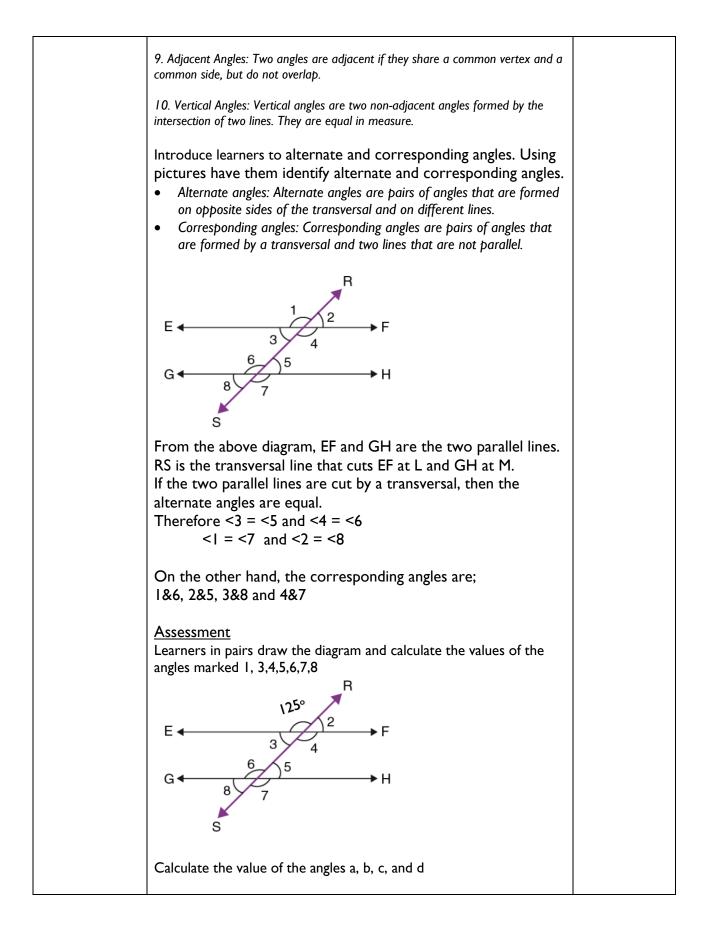
= $4y^2 - 4y + 4y$ // and +4y - 4y cancels out = $4y^2$	
Therefore, the simplified form of the expression is = $4y^2$	
Assessment 1. $3(5x+2x) - (4-5x)$ 2. $(t + k) + (5t \times 2)$ 3. $(6m)^2 - 4(2m \times m) + 2m$ 4. $2y-y(6y-2y) - (-2 \times 2y)$	
Guide learners to solve problems based on multiplication and division of algebraic fractions. To solve problems based on multiplication and division of algebraic fractions, follow these general steps:	
1. Simplify each algebraic fraction by factoring out any common factors in the numerator and denominator.	
2. To multiply algebraic fractions, multiply the numerators together and multiply the denominators together. Then, simplify the resulting fraction by factoring out any common factors.	
3. To divide algebraic fractions, invert the second fraction and multiply it by the first. Then, simplify the resulting fraction by factoring out any common factors.	
Example 1: Multiply $\frac{(2x^2 + 4x)}{(x+2)} \times \frac{(x+1)}{(x^2-4x)}$ Solution: First, simplify each fraction. We can factor out a 2x from the first fraction to get:	
$\frac{(2x^2+4x)}{(x+2)} = \frac{2x(x+2)}{(x+2)} = 2x$	
For the second fraction, we can factor out an x from the denominator to get:	
$\frac{(x+1)}{(x^2-4x)} = \frac{(x+1)}{x(x-4)}$	
Now we can multiply the two fractions together:	
$2x * \frac{(x+1)}{x(x-4)}$	
Multiplying the numerators gives us:	
$2x(x+1)=2x^2+2x$	
Multiplying the denominators gives us:	
$x(x-4) = x^2 - 4x$	
So the final answer is:	

	$=\frac{(2x^2+2x)}{(x^2-4x)}$
	We can simplify this by factoring out a $2x$ from the numerator and a x from the denominator:
	$= \frac{2x(x+2)}{x(x-4)} = \frac{2(x+2)}{x(x-4)}$
	Example 2: Divide $\frac{(3x^2-9x)}{(x^2-4)} \div \frac{(2x^2+8x)}{(x^2-2x)}$ Solution: First, simplify each fraction. We can factor out a 3x from the numerator of the first fraction and factor out a 2x from the numerator of the second fraction:
	$\frac{(3x^2 - 9x)}{(x^2 - 4)} = \frac{3x(x - 3)}{(x - 2)(x + 2)}$
	$\frac{(2x^2+8x)}{(x^2-2x)} = \frac{2x(x+4)}{x(x-2)}$
	Now we can invert the second fraction and multiply it by the first: $\frac{(3x^2-9x)}{(x^2-4)} \times \frac{x(x-2)}{2x(x+4)}$
	Multiplying the numerators gives us: 3x(x - 3)(x - 2)
	Multiplying the denominators gives us: 2x(x + 4)(x - 2)(x + 2)
	So the final answer is: $\frac{3x(x-3)(x-2)}{2x(x+4)(x-2)(x+2)}$
	We can simplify this by cancelling out the $(x - 2)$ factor in the numerator and denominator: $\frac{3x(x-3)}{2x(x+4)(x+2)}$
	$\underline{Assessment}_{b}$
	1) $\frac{a}{7} \times \frac{b}{8}$ 2) $\frac{3x-3}{4x-4}$
	3) $\frac{a}{ab} \div \frac{1}{a}$ 4) $\frac{7}{8r} \times \frac{2}{5r}$
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 05	-05-2023	DAY:	Subject: Mathematics	
Duration: 60MINS			Strand: Number	
Class: B8		Class Size:	Sub Strand: Algebraic	Expressions
Content Standar B8.2.1.1 Demonst to draw table of v linear relation	rate the ability	Indicator: B8.2.2.1.3 Substitute values to expressions including fractions problems.	-	Lesson: I of 2
	titute values to	evaluate algebraic expressions to solve problems	Core Competencies: Communication and Coll Critical Thinking and Pro	
References: Math	ematics Curric	ulum Pg. 119		
Phase/Duration PHASE 1:	Learners Activ Revise with le	vities arners on the previous lesson.		Resources
STARTER	lesson.	nance indicators with learners an		
PHASE 2: NEW LEARNING			Counters, bundle and loose straws base ten cut square, Bundle of sticks	
	algebraic expressions. To substitute values to evaluate algebraic expressions including fractions:			
	 Identify the variables in the expression that you want to substitute values for. Replace each variable with the corresponding value. Simplify the expression by performing any necessary arithmetic operations, such as addition, subtraction, multiplication, and division. Example, Evaluate the expression (3x - 2)/(x + 1) when x = 4. The variable in this expression is x. We replace x with the value 4: (3x - 2)/(x + 1) = (3(4) - 2)/(4 + 1) Simplify the expression by performing the arithmetic operations: (3(4) - 2)/(4 + 1) = (10/5) = 2 			
	Therefore, when $x = 4$, the value of the expression $(3x - 2)/(x + 1)$ is 2.			
	Example 2: Evaluate the expression $\frac{(2x+3)}{(x-4)}$ when x = 5. 1. Identify the variable in the expression: x. 2. Replace x with the value 5:			

F		
	$\frac{(2x+3)}{(x-4)} = (2(5) + 3)/(5 - 4)$ 3. Simplify the expression by performing the arithmetic operations: (2(5) + 3)/(5 - 4) = (13/1) = 13	
	Therefore, when $x = 5$, the value of the expression $(2x + 3)/(x - 4)$ is 13.	
	Example 3: Evaluate the expression $(5y - 2)/(2y + 1)$ when $y = -3$.	
	1. Identify the variable in the expression: y. 2. Replace y with the value -3: (5y - 2)/(2y + 1) = (5(-3) - 2)/(2(-3) + 1) 3. Simplify the expression by performing the arithmetic operations: $(5(-3) - 2)/(2(-3) + 1) = (-17/-5) = 3.4$	
	Therefore, when $y = -3$, the value of the expression $(5y - 2)/(2y + 1)$ is 3.4.	
	Example 4: Evaluate the expression $(4a^2 - 3b)/(2a - b)$ when a = 2 and b = 1.	
	1. Identify the variables in the expression: a and b. 2. Replace a with the value 2 and b with the value 1: $(4a^2 - 3b)/(2a - b) = (4(2)^2 - 3(1))/(2(2) - 1)$ 3. Simplify the expression by performing the arithmetic operations: $(4(2)^2 - 3(1))/(2(2) - 1) = (13/3)$	
	Therefore, when $a = 2$ and $b = 1$, the value of the expression $(4a^2 - 3b)/(2a - b)$ is 13/3.	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 12	-05-2023	DAY:		Subject: Mathematics	
Duration: 60MINS			Strand: Geometry & M	leasurement	
Class: B8		Class Size:	-	Sub Strand: Alternate Corresponding Angles	And
Content Standard: B8.3.1.1 Demonstrate understanding and relationship between parallel lines and al corresponding angles and use the sum o triangle to deduce the angle sum in any		es and alternate and e sum of angles in a	values of	r: I Draw and determine th f alternate and onding angles.	e Lesson:
Performance Ind Learners can draw corresponding ang	v and determin	e the values of alterna	ate and	Core Competencies: Communication and Collab Critical Thinking and Probl	
References: Math	ematics Curric	ulum Pg. 123			
Phase/Duration	Learners Act				Resources
PHASE I: STARTER		earners on the previou mance indicators with		nd introduce the	
PHASE 2: NEW LEARNING	An angle is a measure of the space between two intersecting lines or surfaces, often measured in degrees or radians. It is formed when two lines or surfaces meet at a common point, called the vertex of the angle.				Counters, bundle and loose straws base ten cut square, Bundle of sticks
	 Acute Angle: An acute angle is an angle whose measure is between 0 and 90 degrees. Right Angle: A right angle is an angle whose measure is exactly 90 degrees. It is 				
	often represented by a small square placed at the vertex of the angle. 3. Obtuse Angle: An obtuse angle is an angle whose measure is between 90 and 180 degrees.				
	4. Straight Angle: A straight angle is an angle whose measure is exactly 180 degrees. It is essentially a straight line.				
	5. Reflex Angle: A reflex angle is an angle whose measure is between 180 and 360 degrees.				
	6. Complementary Angles: Two angles are complementary if their measures add up to 90 degrees.				
	7. Supplementary Angles: Two angles are supplementary if their measures add up to 180 degrees.				
	8. Congruent Ar	ngles: Two angles are cong	ruent if they	y have the same measure.	

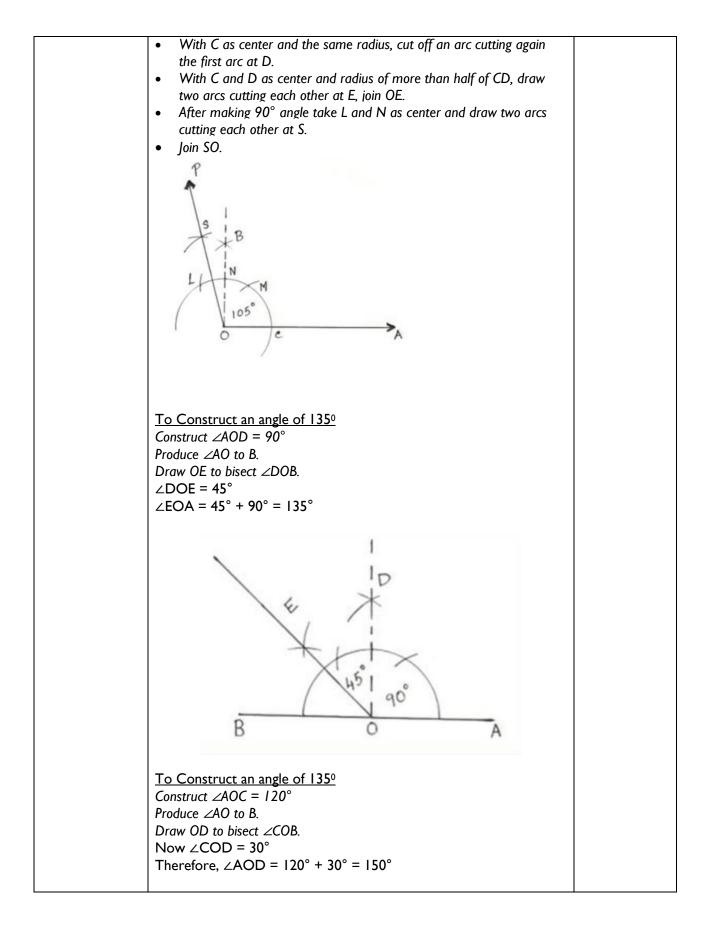


	48° 58° d° b° c°a°	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 2	2-05-2023 DAY: Subject: Mathematic			Subject: Mathematics	
Duration: 60MINS	Jration: 60MINS		Strand: Geometry & N	1easurement	
Class: B8	Class Size: Su		Sub Strand: Sum Of In	iterior Angles	
Content Standard:Indicator:B8.3.1.1 Demonstrate understanding and use of the relationship between parallel lines and alternate and corresponding angles and use the sum of angles in a triangle to deduce the angle sum in any polygonIndicator: B8.3.1.1.2 Determine the value angles in a triangle using known of the sum of interior angle triangle and other properties			Determine the values o a triangle using knowledg n of interior angles in a		
	ermine the valu	es of angles in a triang r angles in a triangle a		Core Competencies: Communication and Coll Critical Thinking and Pro	
References: Math	ematics Curric	ulum Pg. 124			
Phase/Duration PHASE I: STARTER	Share perform	earners on the previou		d introduce the	Resources
PHASE 2: NEW LEARNING	Revise with le Guide learner triangle. (4y+ ar Learners in p in a polygon a hexagon. To derive the f start by dividin triangles by dr number of tria the number of	Guide learners to calculate the values of y and the angles in the triangle.			Counters, bundle and loose straws base ten cut square, Bundle of sticks

	From this diagram, we can see that the sum of the interior angles of the pentagon is equal to the sum of the interior angles of the three triangles. Each triangle has two interior angles that are shared with the other triangles and one angle that is unique to that triangle. Therefore, the sum of the interior angles of each triangle is 180 degrees, and the sum of the interior angles of the polygon is: Sum of interior angles = (number of triangles) x 180 degrees The number of triangles in the polygon is two less than the number of sides or vertices, so we can substitute (n - 2) for the number of triangles: Sum of interior angles = (n - 2) x 180 degrees where n is the number of sides or vertices in the polygon. Therefore, we have derived the formula for the sum of interior angles in a polygon, which is: Sum of interior angles = (n - 2) x 180 degrees. Learners to use the formula for finding the sum of interior angles in a polygon (n-2)180 to determine the value of x in the hexagon.
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 9	19-05-2023 DAY:			Subject: Mathematics	
Duration: 60MINS				Strand: Geometry & N	1easurement
Class: B8		t & Bisect			
locus of points un	rate the ability uctions of the a °), and constru der given cond	ngles (75°, 105°, ct triangles and find		r: I Construct and bisect ¹ 120°, 105°, 135° and 150	Lesson:)° I of 2
Performance Ind Learners can cons and 150°		t angles of 120°, 105°	, 135°	Core Competencies: Communication and Collal Critical Thinking and Probl	
References: Math	ematics Curric	ulum Pg. 123			
Phase/Duration	Learners Acti				Resources
PHASE I: STARTER	Revise with le Share perforr lesson.				
PHASE 2: NEW LEARNING	 angles of 120 <u>To Construct</u> Draw a rate With O as B. With B as center and With B as center and <u>To Construct</u> Take any With O as at B. 	center and any suitable center and the same radius cut the and same radius cut the and 60° 60° 8 can angle of 105° ray OA. center and any convent	e radius dr adius cut th rc at D. Joi A Then ient radius	aw an arc cutting OA at the arc at C, then with C as in OD and produce it to E. $\angle AOE = 120^{\circ}$.	Counters, bundle and loose straws base ten cut square, Bundle of sticks



	D	3° 12°		
	В	0	A	
	angles; 120°, 105°, 135			
PHASE 3: REFLECTION		d effective questioning to e learnt during the lesson		
		rners and summarize the		

Week Ending: 19-05-2023				Subject: Mathematics	
Duration: 60MINS	;			Strand: Geometry & N	1easurement
Class: B8	Class Size: Sub Strand: Construct			Sub Strand: Construct	t Of Triangles
Content Standar B8.3.1.2 Demonst perform geometri angles (75°, 105°, and construct tria points under giver	rate the ability ic construction 60°, 135° and ngles and find n conditions	s of the I 50°),	triangles, equilateral tr	led triangles in different	
	rmine the valu	-	es in a triangle using n a triangle and other	Core Competencies: Communication and Coll Critical Thinking and Pro	
References: Math	ematics Curric	ulum Pg.	127-132		
Phase/Duration PHASE 1: STARTER	Learners Activities Revise with learners on the previous lesson. Share performance indicators with learners and introduce the lesson.				Resources
PHASE 2: NEW LEARNING	 Gide learners equilateral tri equilateral tri equilateral tri Draw a st Label the Use a rule length is " "a" from µ With a co tip on poin Label the Without co D and dro step. Labe Draw a st Draw a st Draw a st Draw a st Label the Use a rule but at a de 	iangle whi iangle raight line endpoints er to meas la". Mark boint A. mpass, se nt C and co intersection hanging th aw anothe el the inter raight line raight line raight line raight line endpoints er to meas lifferent di	pair of compasses and a en a side is given and jus segment to serve as the l as points A and B. ure the length of the giver a point C on the line segm t the width to the length " Iraw an arc that intersects in points as D and E. ne compass width, place the r arc that intersects the ar section point as F. connecting point C and p connecting point F and point a pair of compasses and segment to serve as the l as points A and B. ure and mark a second point stance from point A than point h of one side of the triang	stify why it is an base of your triangle. In side. Let's say the nent AB, at a distance of a". Place the compass is the line segment AB. The compass tip on point for drawn in the previous ooint F. ooint B. a ruler to construct base of your triangle. ooint, C, on the same line point B. This will	Counters, bundle and loose straws base ten cut square, Bundle of sticks

	• With a compass, set the width to the length of the second side of the triangle. Place the compass tip on point B and draw an arc that intersects the line segment AB.
	 Without changing the compass width, place the compass tip on point A and draw another arc that intersects the line segment AB.
	• Label the intersection point of the arcs as point D.
	• Draw a straight line connecting point C and point D. This will be the second side of the triangle.
	• Draw a straight line connecting point C and point B. This will be the third side of the triangle.
	Using a pair of compasses and a ruler, guide learners to perform geometric construction of an isosceles right-angled triangle when the base line is given.
	1. Draw a straight line segment to serve as the base of your triangle. Label the endpoints as points A and B.
	2. Use a ruler to measure and mark a point C on the line segment AB. This will be the midpoint of AB.
	3. With a compass, set the width to the length of AC. Place the compass tip on point C and draw an arc that intersects the line segment AB. Label the intersection points as D and E.
	4. Without changing the compass width, place the compass tip on point D and draw another arc that intersects the arc drawn in the previous step. Label the intersection point as F.
	5. Draw a straight line connecting point C and point F.
	6. Draw a straight line connecting point F and point B.
	Assessment
	I. Use a pair of compasses and a ruler to perform geometric
	construction of an isosceles triangle when all the sides are given.
	2. Use a pair of compasses and a ruler to perform geometric
	construction of an isosceles triangle when the base angles and base
	side are known
	3. Use a pair of compasses and a ruler to construct acute-angled triangles, obtuse-angled triangles and right-angled triangles when a
	side and two angles are given
	4. Use a pair of compasses and a ruler to construct triangles when all
	the sides are given.
PHASE 3:	Use peer discussion and effective questioning to find out from
REFLECTION	learners what they have learnt during the lesson.
	Take feedback from learners and summarize the lesson.

Week Ending: 26	6-05-2023 DAY: Sub			Subject: Ma	thematics	
Duration: 60MINS				Strand: Ge	ometry & M	leasurement
Class: B8	Class Size: Sub Strand: Construct Angles			: Construct	& Bisect	
geometric constru 60°, 135° and 150	Content Standard: B8.3.1.2 Demonstrate the ability to perform geometric constructions of the angles (75°, 105°, 60°, 135° and 150°), and construct triangles and find locus of points under given conditions.			Lesson: 1 of 2		
Performance Ind Learners can cons	struct loci			Core Competer Communication Critical Thinking	and Collabo	
References: Math	ematics Curric	ulum Pg. 133-141				
Phase/Duration PHASE 1: STARTER	Learners Activities Revise with learners on the previous lesson.			ho	Resources	
PHASE 2: NEW LEARNING	Share performance indicators with learners and introduce the lesson. Have learners understand that a 'locus' refers to the set of all points that satisfy a specific geometric condition. It represents the path or trajectory followed by a point or object under certain constraints or rules. The concept of locus is often used in geometry to describe the collection of points that satisfy a given property. For example, the locus of points equidistant from two fixed points is a straight line called the perpendicular bisector. Similarly, the locus of points equidistant from a fixed point is a circle. Demonstrate how to construct a loci 1. Identify the condition: Determine the specific condition or property that the points must satisfy. 2. Analyze the condition: Understand the requirements of the condition or property. Break it down into simpler components if needed. For example, if the condition involves the distance between points, consider the distances involved and their relationships.				Counters, bundle and loose straws base ten cut square, Bundle of sticks	
	rulers, compass	ic tools: Depending on the es, protractors, or specific visualize the locus.				

	4. Consider different scenarios: Explore different cases or variations of the	
	condition to gain a better understanding of the locus. This might involve changing parameters or considering different possibilities within the condition.	
	5. Record the locus: Once you have determined the set of points that satisfy the	
	condition, record or represent the locus appropriately. This could be by drawing	
	the locus on a coordinate plane, labeling it with relevant equations or descriptions,	
	or using mathematical notation to express the locus.	
	6. Verify and refine: After constructing the locus, verify that the points on the locus	
	indeed satisfy the condition. If necessary, refine the construction by checking	
	additional points or adjusting the construction based on any discrepancies found.	
	Guide learners to construct loci under given conditions	
	including:	
	(i) the locus of sets of points from a fixed point;	
	(ii) the locus of points equidistant from two fixed points;	
	(iii) the locus of points equidistant from two intersecting	
	straight lines, and	
	(iv) the locus of points equidistant from two parallel lines.	
	Describe the locus of a circle by tracing the path of a point P which	
	moves in such a way that its distance from a fixed point, say O, is	
	always the same to construct circles	
	Perform geometric construction to locate the centre of a circle by	
	locating the intersection of the perpendicular bisectors of any two chords on the circle	
	Draw circles of given radii at the points as centre and chord.	
	Construct a regular hexagon within a circle given the length of a side	
	Assessment	
	Use a pair of compasses and a ruler to construct a hexagon	
	ABCDEF such that $ AB = 6$ cm. Find the measure of the angles AOB	
	and compare to its value.	
PHASE 3:	Use peer discussion and effective questioning to find out from	
REFLECTION	learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 26	-05-2023	DAY:		Subject: Mathematics		
Duration: 60MINS	5			Strand: Geometry & M	1easurement	
Class: B8		Class Si	ze:	Sub Strand: Construct	t Of Triangles	
the primary trigor the formulas for d a circle to solve re	 8.3.1.2 Apply the Pythagoras theorem, he primary trigonometric ratios and he formulas for determining the area of circle to solve real problems. B8.3.2.1.1 Use the relationship between the diameter and circumference of a circle to deduce the formula for finding its area, and use this to solve problems 					
	the relationship a circle to dedu	uce the fo	n the diameter and ormula for finding its	Core Competencies: Communication and Coll Critical Thinking and Pro		
References: Math	ematics Curric	ulum Pg.	142			
Phase/Duration PHASE 1: STARTER	Revise with le	Learners Activities Resources Revise with learners on the previous lesson. Share performance indicators with learners and introduce the				
PHASE 2: NEW LEARNING	circumference of a circle to deduce the formula for finding its area. E.g.1: Divide a circle into sectors (minimum of 16) then cut the				Counters, bundle and loose straws base ten cut square, Bundle of sticks	
	diameter of the formula for fi We know that its boundary,	he circle. nding the nt the circ while the	the circumference and d From this relationship, area of a circle. cumference of a circle is a area of a circle is the n To derive the formula f	we can deduce the the distance around neasure of the region		

	make use of the fact that the circumference is directly related to the diameter.	
	We start with the equation for the circumference of a circle:	
	C = πd	
	We can rewrite the diameter in terms of the radius (r), which is half of the diameter:	
	d = 2r	
	Substituting this expression for the diameter in the equation for the circumference, we get:	
	C = π(2r)	
	Simplifying further:	
	C = 2πr	
	Now, we can use the relationship between the circumference and the radius to find the formula for the radius:	
	C = 2πr	
	Dividing both sides of the equation by 2π :	
	C / (2π) = r	
	Now, let's focus on the formula for the area of a circle. The area (A) of a circle is given by the formula:	
	$A = \pi r^{2}$	
	Assessment Let learners solve problems on area of a circle. (i) Find the area of a circle whose radius is 14cm (Take π = 22/7).	
	(ii) Find the area of a semi-circle whose radius is 7cm (Take π = 22/7)	
	(iii) Two circles have a common center; the small circle has radius 7cm, the big circle has radius 14cm.Find the shaded area. (Take π = 22/7).	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: ()2-06-2023	DAY:		Subject: Mathematics	
Duration: 60MINS	5			Strand: Data	
Class: B8		Class Size:	:	Sub Strand: Statistics	
•	Indicator:t, justify, and use appropriateollect data (quantitative andand grouped data			Lesson: 1 of 2	
Performance Ind Learners can iden categorical, ungro	tify types of giv		uding numerical,	Core Competencies: Communication and Collabo Critical Thinking and Problem	
References: Math	ematics Curric	ulum Pg. 153	3		
Phase/Duration PHASE I: STARTER		earners on t	he previous lessor tors with learners	n. s and introduce the	Resources
PHASE 2: NEW LEARNING	Discuss, in s of investigati i. Numeric (Japan Motor family; the n ii. Numeric ((e.g. 4.5kg) v Discuss (in g investigation i. Non-nume income grou weight class, ii. Sort out t with values t class; age gro information (i) That can (male or fem i. The scores	ion which n and discrete s, Ghana in umber of le (and contine which conta groups) info which conta groups) info which conta groups) info which conta groups) info which may eric (cannot up, movie ty eric (cannot up, movie ty etc. the example that can be oup) iii. Sor in be put into nale); marita s for 11 lear 0, 45, 37 ar	nay be numeric. e): the number of a year; the num earners in B8 class uous): the weigh ins fractional val ormation collecter y be non-numeric to be quantified): s ype, age group, n es of the non-nur put on ordinal s rt out the examp categories (Cate al status; income rners in a class t	ets of babies in a crèche lues. ed in the process of c. sex (male or female); narital status, boxers' meric information in (i) cale (boxers' weight les of the non-numeric egorical data): sex	Counters, bundle and loose straws base ten cut square, Bundle of sticks

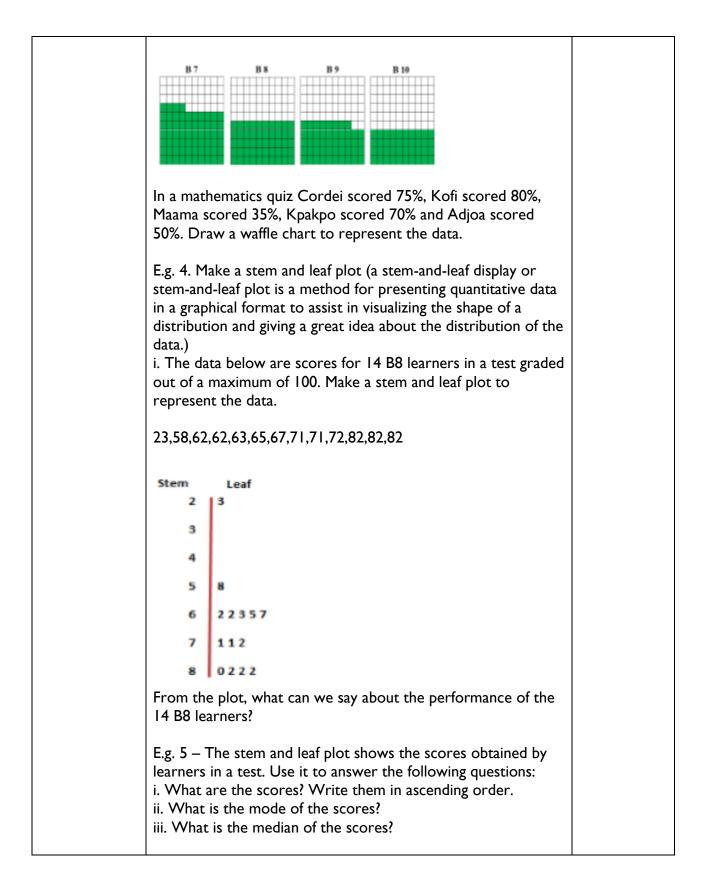
	ii. Find out those in the group 25 to 35 (i.e. 5) and those in the group 36 to 50 (i.e. 6) Data is now grouped	
PHASE 3: REFLECTION		
	Take feedback from learners and summarize the lesson.	

Week Ending: (02-06-2023	DAY:		Subject: Mathematics		
Duration: 60MINS	5			Strand: Data		
Class: B8		Class Size:		Sub Strand: Statistics		
•	ard: justify, and use appropriateIndicator: B8.4.1.1.1 Identify types of given data including numerical, categorical, ungrouped and grouped data			Lesson: I of 2		
Learners can iden categorical, ungro	Performance Indicator:Core Competencies:Learners can identify types of given data including numerical, categorical, ungrouped and grouped dataCore Competencies: Communication and Collabor Critical Thinking and ProblemReferences: Mathematics Curriculum Pg. 153					
Phase/Duration					Decourses	
Phase/Duration PHASE I:	Learners Act		he previous lessor).	Resources	
STARTER				and introduce the		
PHASE 2: NEW LEARNING	of investigat i. Numeric (Japan Motor family; the n ii. Numeric (e.g. 4.5kg) v Discuss (in g investigation i. Non-nume income grou weight class, ii. Sort out t with values f class; age gro information (i) That can (male or fen i. The scores	ion which n and discrete s, Ghana in umber of le (and contine which conta groups) info which conta groups) info which may eric (cannot up, movie ty eric (cannot up, movie ty etc. the example that can be oup) iii. Sor in be put into nale); marita s for 11 lear 0, 45, 37 ar	nay be numeric. e): the number of a year; the num earners in B8 class uous): the weigh ins fractional val ormation collecter y be non-numeric to be quantified): s ype, age group, n es of the non-nur put on ordinal s t out the examp categories (Cate al status; income rners in a class t	ts of babies in a crèche lues. ed in the process of c. sex (male or female); narital status, boxers' meric information in (i) cale (boxers' weight les of the non-numeric egorical data): sex	Counters, bundle and loose straws base ten cut square, Bundle of sticks	

	ii. Find out those in the group 25 to 35 (i.e. 5) and those in the group 36 to 50 (i.e. 6) Data is now grouped	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson.	
	Take feedback from learners and summarize the lesson.	

Week Ending: 09-06-2023		DAY:		Subject: Mathematics			
Duration: 60MINS Strand: Data							
Class: B8 Class Siz		Class Size:	:	Sub Strand: Statistics			
Content Standard: B8.4.1.1 Select, justify, and use appropriate methods to collect data (quantitative and qualitative)				ct and justify a method to antitative and qualitative) to question.	Lesson: I of 2		
Performance Ind Learners can iden categorical, ungro	tify types of giv uped and grou	ped data		Core Competencies: Communication and Collabo Critical Thinking and Probler			
References: Mathematics Curriculum Pg. 153							
Phase/Duration	Learners Acti	Resources					
PHASE I: STARTER	Revise with le Share perforr lesson.						
PHASE 2: NEW LEARNING	E.g. I- To st output of we used to gath (i.e. refer to	Counters, bundle and loose straws base ten cut square, Bundle of sticks					
	 i. Will eating twice a person's normal number of cream crackers increase their productivity? ii. Are people who eat more cream crackers more productive? iii. Does a group of students study better when cream crackers are present or absent? E.g. 2 -Select any study to be undertaken and design an 						
PHASE 3: REFLECTION	appropriate Use peer dis learners what						
	Take feedba	ck from lea	rners and summ	arize the lesson.			

Week Ending: 0	9-06-2023	DAY:	:		Subject: Mathematics	
Duration: 60MINS				Strand: Data		
Class: B8		Class Size:			Sub Strand: Statistics	
B8.4.1.1 Select, just	ise appropriate methods gr				t it in frequency tables, line d/or pictographs and analyze S.	
Performance Indi Learners can orga line graphs, pie gra	nize data, pre aphs, bar graj	phs		lles,	Core Competencies: Communication and Collaboration (CC) Critical Thinking and Problem solving (CP)	
References: Math	ematics Curr	r <mark>iculum P</mark>	g. 153			
Phase/Duration PHASE 1: STARTER		Resources n. s and introduce the				
PHASE 2: NEW LEARNING	measured a certain sp a certain sp 40 54 25 5 49 38 43 4 Copy and d using the d Lengths (f 25 - 29 30 - 34 35- 39 40-44 45-49 50-54 55-59 E.g2 A cl	e lengths, in millimetres, Counters, ves taken from plants of bundle and 2 41 47 44 46 39 51 59 base ten cut 2 37 35 37 33 38 46 36 ibution table below, ency GHC120 of his salary lothing, GHC110 on on				
	transport a (i) a bar ch E.g3 – Th cell repres shows that	the data and draw present the data. D cell grid in which each ming up to total 100%) by B7 learners in a Read and record the				



	Stem	Leaf	
	1 3 4 5 7 9	5 0 5 5 5 5 7 5 5 5 5 0	
PHASE 3: REFLECTION	Use peer discussion and effective questioning to find out from learners what they have learnt during the lesson. Take feedback from learners and summarize the lesson.		