

EaD Comprehensive Lesson Plans

 or  **0248043888**

NAME OF TEACHER:

WEEK ENDING.....03-03-2023.....

NUMBER ON ROLL:

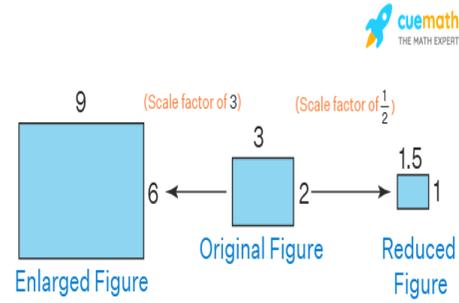
SUBJECT... MATHEMATICS

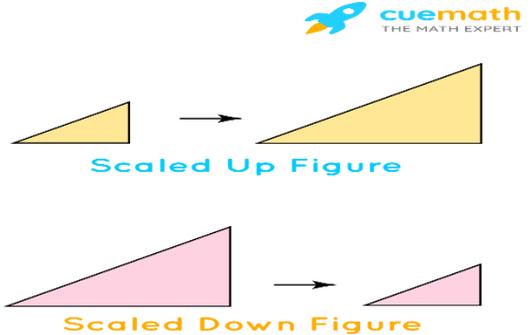
DURATION:

REFERENCE...MATHS SYLLABUS(CRDD,2007), MATHS FOR JHS

FORM.....BASIC 9.....

WEEK.....8.....

<u>DAY/DATE</u>	<u>TOPIC/SUB-TOPIC/ASPECT</u>	<u>OBJECTIVES/R.P. K</u>	<u>TEACHER-LEARNER ACTIVITIES</u>	<u>T/L MATERIALS</u>	<u>CORE POINTS</u>	<u>EVALUATION AND REMARKS</u>
MONDAY 9:15AM - 10:25AM 70min	Topic; Enlargements and Similarities Sub-Topic; Enlargement of Geometrical shapes	By the end of the lesson the Pupil will be able to; carry out an enlargement on a geometrical shape given a scale factor RPK Pupils can draw Geometric shapes.	Introduction Pupils brainstorm to identify examples of Geometric shapes. Activities <ol style="list-style-type: none"> 1. Demonstrate drawing an enlargement of a geometrical figure with a given scale factor 2. Assist Pupils to draw the enlargement of a geometrical figure with a 	Wordchart, Power Point Presentation, Pictures	Scale factor is a number by which the size of any geometrical figure or shape can be changed with respect to its original size. It is used to draw the enlarged or reduced shape of any given figure and to find the missing length, area, or volume of an enlarged or reduced figure. It should be noted that the scale factor helps in changing the size of the figure and not its shape. 	Exercise; <ol style="list-style-type: none"> 1. Write the correct scale factor formulas for the following situations. <ol style="list-style-type: none"> a) If the image has to be enlarged. b) If the image has to be reduced. 2. There are two similar polygons

			<p>given scale factor</p> <p>3. Discuss the meaning of single transformation with the Pupils.</p> <p>Closure Pupils brainstorm to identify single transformations that map geometric shapes on a graph.</p>		 <p>as shown below. Find the scale factor used to create the smaller polygon.</p> <p>3. A triangle was increased by a scale factor of 2 resulting in the new dimensions as 6 units by 10 units by 12 units. Find the dimensions of the original triangle</p>
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TUESDAY

**10:50AM –
12:00PM
70min**

Topic;

Enlargements and Similarities

Sub-Topic;

Finding Scale Factor

By the end of the lesson the Pupil will be able to;

determine the scale factor given an object and its image

RPK

Pupils were taught the meaning scale factor.

Introduction

Review Pupils knowledge on the previous lesson.

Activities

1. Demonstrate how to find the ratio of the sides of an image.
2. Assist Pupils to find the scale factor by determining the ratio of the sides of an image to the corresponding sides of the object.

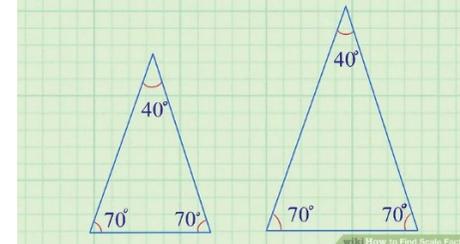
Closure

Through questions and answers, conclude the lesson.

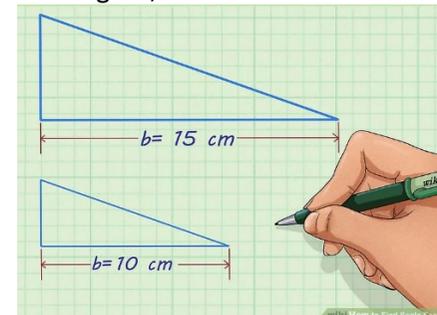
Finding scale factor steps;

- ✓ **Verify that the figures are similar**

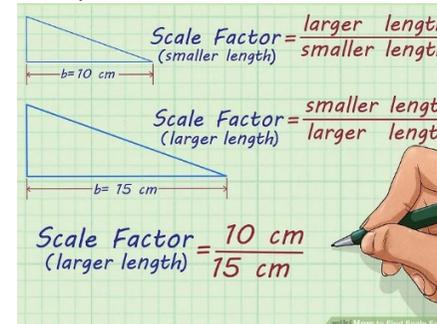
*Similar figures:
are the same shape, only one figure is bigger than the other.*



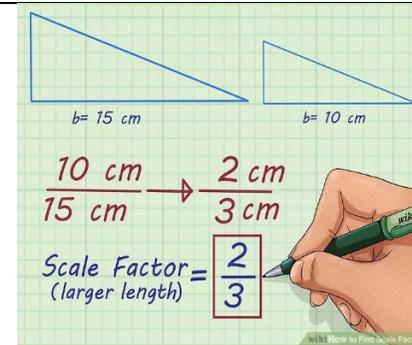
- ✓ **Find a Corresponding side length on each figure;**



- ✓ **Set up a ratio;**



- ✓ **Simplify the ratio**



FRIDAY
9:15AM – 10:25AM
70mins

Topic;
Enlargements and Similarities

Sub-Topic;
Properties of Enlargement.

Objective
By the end of the lesson the Pupil will be able to;

state the properties of enlargements, with respect to its similarity, congruence and orientation

RPK
Pupils were taught the meaning scale factor.

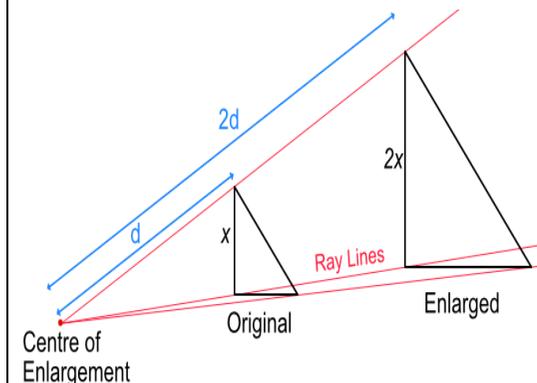
Introduction
Show Pupils video and pictures displaying the properties of enlargements.

Activities

1. Assist Pupils to identify the properties of enlargements.
2. Discuss the meanings of the properties of enlargements with the Pupils.
3. Pupils in small groups to discuss the

Properties of Enlargement

- The scale factor =
- The centre of enlargement is the only point that does not move (invariant)
- The shape of the object does not change when enlarged.
- The sizes of the angles in the object and image do not change (invariant)



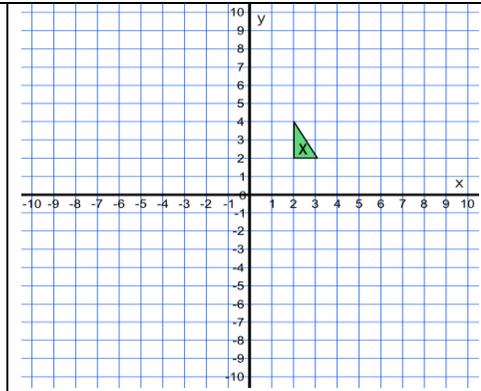
Enlarge the shape X by a scale factor of 2, with a centre of enlargement at $(-3, 1)$.

Exercise;
State 5 Properties of Enlargements.

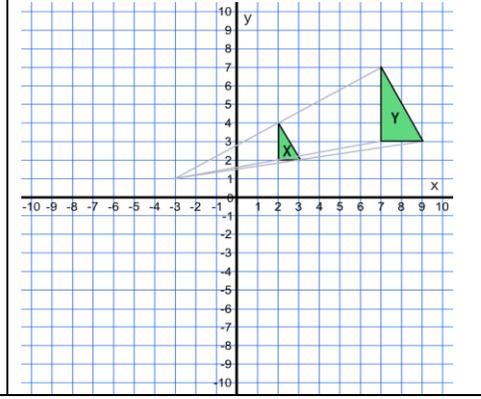
properties of objects under translation with respect to its similarity, congruence and orientation

4. Each group to report to the class their discussions.

Closure
Through questions and answers, conclude the lesson.



Ans;



Name of Teacher:

School:

District: