



Subject: Mathematics	Grade	: Four (4)	Strand: Number	Duration: 60 Minutes	
Topic: Perimeter		Focus Question : What is the difference between length and area and how are they measured?			
Standard:	Use the correct units, tools and attributes to estimate, compare and carry out the processes of measurement to given degree of accuracy.				
Benchmarks:	Estimate and measure distance and area using standard metric units.				
Materials:	Strips of paper, Thumb tacks/paper clips, Ruler				

Specific Objectives

- o By the end of the lesson, students will be able to:
 - find the perimeter of a polygon.

Prior Learning:

- Students should already:
 - be able to use ruler to measure length;
 - be familiar with the basic concept of perimeter and the units of length.

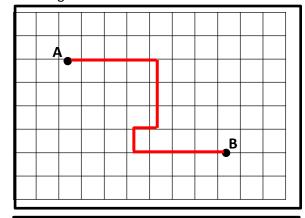
Content Summary

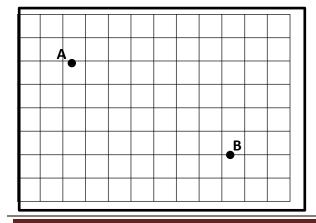
 Perimeter is the measurement of the entire length of the edge, boundary or rim of a regular or irregular figure.

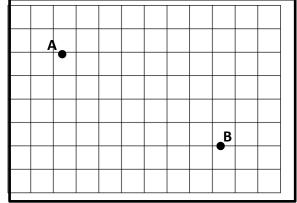
Engage

Show students the grid with the path connecting A and B. draw their attention to the following:

- o The squares on this grid have sides with length of 1 m.
- o The distance from A to B (shown by the red line) is 13 m long.
- Paths can run horizontally or vertically.
 Give students blank grid (see below) and allow them to find a path from A to B that is
 - 15 m long
 - 18 m long









Explore

- Place students in groups of 4. Give each group 4 paper clips or thumb tacks as well as two pairs of strips of paper made with cartridge paper, strawboard or cardboard.
- Tell each group to use the strips of paper and the thumb tacks or paper clips to make a rec tangle as shown below:



- Instruct students to measure and write down the length of each side of the rectangle created in their group.
- Have each group remove one thumb tack/paper clip from the rectangle to create a continuous strip with the pieces of cardboard/cartridge paper (shown below).
- Discuss with students what is represented by the straight line that they now have. Tell students to determine the total length of the strip (either by measuring or by computing).
- Have students then re-form their rectangles and state their perimeter.

Explain

Discuss with students how they were able to determine the perimeter of the various rectangles.
 Draw some of these rectangles on the board and discuss their perimeters.

Extension

Give each group a different number of pieces of paper (from 5 to 9 pieces). Have each group form a
polygon using the pieces of paper that they receive and determine its perimeter.

Evaluation

Students' Evaluation

- Give students 5 strips of paper of lengths 10 cm
 15 cm
 18 cm
 20 cm
 25 cm
- Ask students to
 - Make a polygon with a perimeter of 50 cm
 - Make a quadrilateral with a perimeter of 78 cm
 - Make a polygon with 3 sides and the largest perimeter possible.





Teacher Evaluation

What percentage of students able to:	0% - 50%	51% - 80%	81% - 100%
Find the perimeter of a polygon			
Create polygon with a given perimeter			

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Comments:			
Areas of strengths			
Areas of weaknesses			
Actions to be taken			
Actions to be taken			