



Jakarta International
School
6th Grade
Practice test-Formative
Area and Volume- Green

Name: _____

Date: _____

Score: $\frac{\quad}{26}$

Area of Triangles and Parallelograms:

1) The mainsail on a yacht is made in the shape of a triangle. What is the area of the sail on Mr. McMullen's little optimist dinghy if the base is 2 meters and the height is 2.8 meters (2pts)

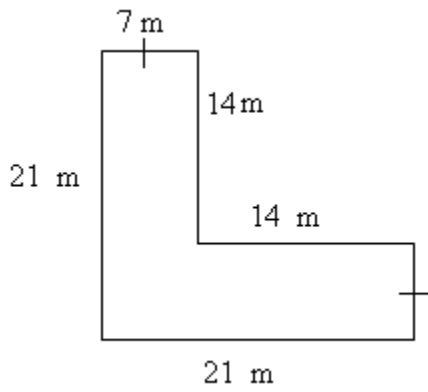


2) Ms. Strydhorst-Piers is making a quilt by stitching together pieces of fabric that are all the same size and shaped like a parallelogram. Each piece of fabric has a base of 12cm, side of 9cm and height of 11 cm. She uses 30 pieces of fabric to make the quilt.

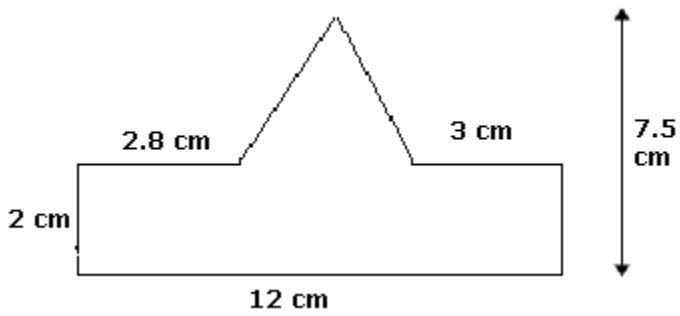
a. Find the area of one piece of fabric. (2pts)

b. Find the area of her finished quilt. (2pts)

3) Find the area of the following figures. (3pts each)



AREA: _____



AREA: _____

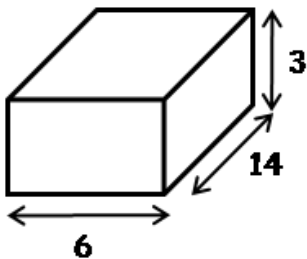
- 4) The new car parks at Carrefour have been made in the shape of a parallelogram. Each parking space is 4.2 meters long and has an area of $10.5m^2$. How wide is each parking space? (2pts)

Surface Area:

- 5) The wrapping paper you have to cover a birthday gift measures 40cm X 60cm. You want to wrap a box that is 14cm by 6cm by 3 cm. Answer the questions and work out if you have enough wrapping paper:

- a. What is the area of the wrapping paper? (2pts)

- b. What is the surface area of the box? (Measurements are in centimeters.) (3pts)



- c. Do you have enough paper? Explain why or why not. (1pt)

Volume of Prisms:

6) A rectangular swimming pool has sides measuring 8 m by 5 m. The depth is 6m and is the same everywhere. Find the volume of the swimming pool. (2pts)

7) Justin's mother loves to make Christmas cake. Last year, she made a cake in the shape of a rectangular prism and asked Justin to measure the cake and write down the dimensions so that she could order a box to put it in. He told her that the height of the cake was 5cm, the width was 12cm and the volume was 720cm^3 .

Calculate the length of the cake for Justin. (2pts)

8) Justin's mother made a smaller cake for his grandmother. The length, width and height were all 5cm.

a. Calculate the volume of the cake. (1pt)

b. What is the shape of the cake? (1pt)

