

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## **Perimeter and Area**

1. In each of the following situations, determine if its more appropriate to calculate the perimeter or the area of the polygon.

- a) Putting lace around the edge of a tablecloth: \_\_\_\_\_
- b) Laying grass on a lot of land: \_\_\_\_\_
- c) Calculating the time necessary to complete one lap at the Velodrome: \_\_\_\_\_
- d) Painting a door: \_\_\_\_\_
- e) Recovering a driveway with asphalt: \_\_\_\_\_
- f) Determining the price to pay to buy a piece of land: \_\_\_\_\_
- g) Framing a painting: \_\_\_\_\_
- h) Replacing a mirror: \_\_\_\_\_

2. Indicate the most appropriate unit of measure to measure:

- a) The height of a bridge: \_\_\_\_\_
- b) The distance between Montreal and Toronto \_\_\_\_\_
- c) The thickness of a ruler: \_\_\_\_\_
- d) The quantity of snow that falls: \_\_\_\_\_
- e) The width of a blackboard: \_\_\_\_\_
- f) The length of the St. Lawrence River: \_\_\_\_\_
- g) The quantity of rain that falls: \_\_\_\_\_

3. Indicate the most appropriate unit of measure to measure:

- a) The surface of your bedroom floor: \_\_\_\_\_
- b) The surface are of a county: \_\_\_\_\_
- c) The area of a page in your book: \_\_\_\_\_
- d) The area of a beauty mark: \_\_\_\_\_

## Skill Builder

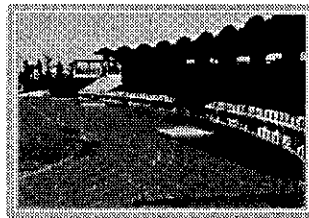
## 1 Measuring Length EVALUATED



- 1** Katie was training for the annual marathon. On her training schedule, her coach listed running distances for her to attempt each day but did not give a unit of measurement. Which unit of length would you expect these distances to be measured in?



- 2** A new track and field facility has been built in the local area. Today, the authorities are checking the length of the lanes to ensure that they meet regulation standards. Given the following measuring tools, which one would be most suited for this purpose?



- 3** Match the items on the left with their approximate measurement on the right.

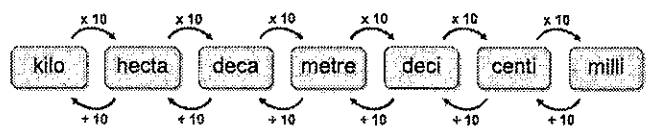
Length of a shoe	3 mm
Width of a student's ruler	3 m
Height of a doorway	3 dm
Thickness of an iPod	3 cm

- 4** From top to toe, how long is the newborn kitten shown in the diagram below? Give your answer in both centimetres and millimetres.



- 5** Use the conversion chart shown below to change the following units to centimetres.

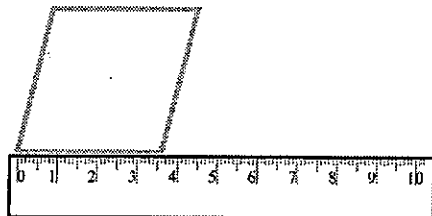
- 0.5 kilometres \_\_\_\_\_
- 1.02 metres \_\_\_\_\_
- 38 decimetres \_\_\_\_\_
- 152 millimetres \_\_\_\_\_



## Skill Builder

- 6** Monica is building a science project and needs a total of 2.5 metres of wire to finish. She has three pieces that are 17 decimetres, 32 centimetres and 55 millimetres. Does she have enough wire to complete her work?

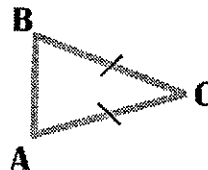
- 7** Find the perimeter of the rhombus shown below. Give your answer in millimetres.



- 8** Edward is building a decorative wooden frame for his bathroom mirror. His rectangular mirror is  $12.8 \text{ dm} \times 6.2 \text{ dm}$ . Calculate the total length of wood required to build the frame.



- 9** Find the perimeter of  $\triangle ABC$ , where  $AC = 12 \text{ m}$  and  $AB = 950 \text{ cm}$ . Give your answer in metres.



- 10** Find the perimeter of a rectangular poster with dimensions  $85 \text{ cm} \times 450 \text{ mm}$ . Give your answer in centimetres.

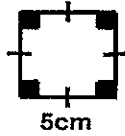




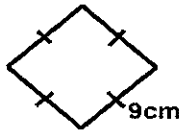




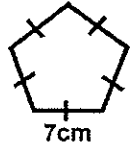
- 1** Calculate the perimeter of the following square.



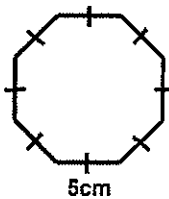
- 2** Calculate the perimeter of the following rhombus.



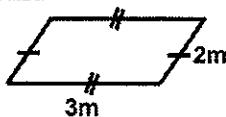
- 3** Calculate the perimeter of the following regular pentagon.



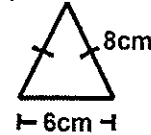
- 4** Calculate the perimeter of the following regular octagon.



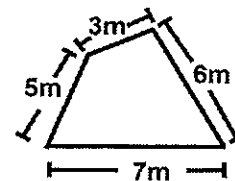
- 5** Calculate the perimeter of the following parallelogram.



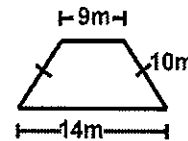
- 6** Calculate the perimeter of the following isosceles triangle.



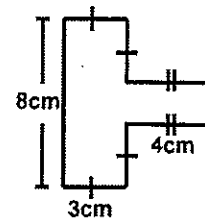
- 7** Calculate the perimeter of the following quadrilateral.



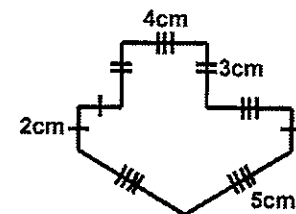
- 8** Calculate the perimeter of the following isosceles trapezoid.



- 9** Calculate the perimeter of the following diagram.



- 10** Calculate the perimeter of the following diagram.



# 4 Perimeter of a Polygon Level 2

EVALUATED



**Skill Builder**

- 1** The side length of a regular hexagon measures 9dm. What is the perimeter in cm?

My Calculations									

- 2** The dimensions of a rectangle are 9m by 4m. What is the perimeter in cm?

My Calculations									

- 3** The perimeter of a regular pentagon is 600cm. What is the length of each side in dm?

My Calculations									

- 4** The perimeter of a regular hexagon is 840mm. What is the length of each side in dm?

My Calculations									

- 5** The perimeter of a square is 48mm. What is the length of each side in cm?

My Calculations									

- 6** The perimeter of a rhombus is 56cm. What is the length of each side?

My Calculations									









# 8 Areas of Polygons Level 2

EVALUATED



**Skill Builder**

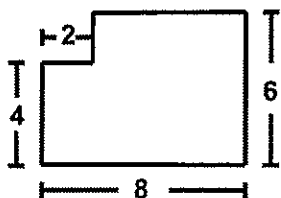
- 1** What is the area of a parallelogram in  $\text{cm}^2$  when its height measures 5.2cm and its base measures 85mm?

My Calculations									

- 2** Calculate the area of a rhombus whose long diagonal measures 12cm and the short diagonal measures 0.08m.

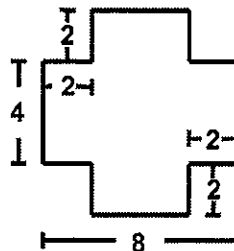
My Calculations									

- 3** Find the area of the following shape by breaking it into rectangles. All measurements are in cm.



My Calculations									

- 4** Find the area of the following shape by breaking it into rectangles. All measurements are in m.



My Calculations									

- 5** A parallelogram has an area of  $96\text{m}^2$ . Calculate the height if the base measures 16m.

My Calculations									

- 6** A trapezoid has an area of  $100\text{cm}^2$ . Calculate the measure of the height if the long base measures 12cm and the short base measures 8cm.

My Calculations									





