

## Perimeter and Area of Polygons

### STEPS FOR SOLVING:

1. Break polygon into shapes you know.
2. Find the side lengths you need.
3. Calculate the area for each shape.
4. Add the areas of each shape to get the total area of the polygon.

### Examples

Find the area and perimeter of each polygon.

1)

$A = b \cdot h$   
 $= 5 \cdot 5$   
 $= 25 \text{ cm}^2$

$A = 2 \cdot 1$   
 $= 2$

$A = 27 \text{ cm}^2$   
 $P = 22 \text{ cm}$

2)

$A = 10 \cdot 10$   
 $= 100$

$A = 20 \cdot 5$   
 $= 100$

$A = 200 \text{ km}^2$   
 $P = 70 \text{ km}$

3)

$A = 5 \cdot 2$   
 $= 10 \text{ cm}^2$

$A = 2 \cdot 2$   
 $= 4$

$A = 5 \cdot 2$   
 $= 10 \text{ cm}^2$

$A = 24 \text{ cm}^2$   
 $P = 28 \text{ cm}$

4)

$A = 12 \cdot 4$   
 $= 48 \text{ m}^2$

$A = 8 \cdot 4$   
 $= 32$

$A = 2 \cdot 12$   
 $= 24$

$A = 96 \text{ m}^2$   
 $P = 64 \text{ m}$