Finding the Perimeter of Rectangles and Squares

1. 

2. 

3. 

4. 

5. 

6. 

7. 

Challenge
Finding the Perimeter of Rectangles and Squares

1. \( \text{Perimeter} = 16\text{cm} + 16\text{cm} + 7\text{cm} = 49\text{cm} \)

2. \( \text{Perimeter} = 12\text{cm} + 12\text{cm} + 12\text{cm} + 12\text{cm} + 12\text{cm} + 12\text{cm} = 72\text{cm} \)

3. \( \text{Perimeter} = 14\text{cm} + 14\text{cm} + 44\text{cm} + 44\text{cm} = 136\text{cm} \)

4. \( \text{Perimeter} = 67\text{cm} + 34\text{cm} + 34\text{cm} + 67\text{cm} = 192\text{cm} \)

5. \( \text{Perimeter} = 58\text{cm} + 58\text{cm} + 51\text{cm} + 21\text{cm} = 188\text{cm} \)

6. \( \text{Perimeter} = 22\text{cm} + 28\text{cm} + 18\text{cm} = 68\text{cm} \)

7. \( \text{Perimeter} = 210\text{cm} + 210\text{cm} + 49\text{cm} + 49\text{cm} = 528\text{cm} \)

Challenge

\( \text{Perimeter} = 116\text{cm} + 65\text{cm} = 181\text{cm} \)
Finding the Perimeter of 2D Shapes

1. Finding the perimeter of a triangle with sides 16 cm and 7 cm.
2. Finding the perimeter of a hexagon with sides 12 cm.
3. Finding the perimeter of a rectangle with sides 14 cm and 44 cm.
4. Finding the perimeter of a rectangle with sides 34 cm and 67 cm.
5. Finding the perimeter of a trapezoid with sides 51 cm, 58 cm, 21 cm.
6. Finding the perimeter of a triangle with sides 22 cm, 28 cm, 18 cm.
7. Finding the perimeter of a rectangle with sides 49 cm, 210 cm.

Challenge

If a regular nonagon (9 sided polygon) has a perimeter of 81 cm, what is the length of one of its sides?
Metres/Km

Finding the Perimeter of 2D shapes

1.  
   ![Hexagon with sides 12cm](image)

   - 12cm
   - 12cm

2.  
   ![L-shaped polygon with sides 12cm, 23cm, 3cm, 5cm, 6cm](image)

   - 12cm
   - 23cm
   - 3cm
   - 5cm
   - 6cm

3.  
   ![Rectangular shape with sides 14cm and 44cm](image)

   - 14cm
   - 44cm

4.  
   ![L-shaped polygon with sides 34cm, 18cm, 3cm, 16cm, 5cm](image)

   - 34cm
   - 18cm
   - 3cm
   - 16cm
   - 5cm

5.  
   ![Trapezoid with sides 78cm, 21cm, 51cm](image)

   - 78cm
   - 21cm
   - 51cm

6.  
   ![Square with sides 14cm and 5cm](image)

   - 14cm
   - 5cm
   - 5cm
   - 5cm
   - 14cm

7.  
   ![Rectangle with sides 78cm and 260cm](image)

   - 78cm
   - 260cm

   ![Challenge](image)

   If a regular nonagon (9 sided polygon) has a perimeter of 81cm, what is the length of one of its sides?
**Finding the Perimeter of 2D and Compound Shapes**

1. **Regular Hexagon**
   - 12cm

2. **Compound Shape**
   - 23cm
   - 12cm
   - 6cm
   - 5cm

3. **Compound Shape**
   - 38mm
   - 16mm
   - 14mm
   - 24mm
   - 38mm

4. **Compound Shape**
   - 34cm
   - 8cm
   - 5cm
   - 16cm

5. **Compound Shape**
   - 51cm
   - 78cm
   - 21cm

**Challenge**

Can you find the length of a side in a regular nonagon if the perimeter is 162cm?