Subject: **Mathematics**

Level: **Standard Four**

**Strand:**   **Measurement**

Topic: **Perimeter**

Key Points:

- Perimeter is the measurement of the total distance around an enclosed shape.

- Compound shapes are made up of two or more basic shapes.

- The perimeter of any compound shape can be calculated by adding the measurement of all its external sides.

Here is an example.

EXAMPLE 1:
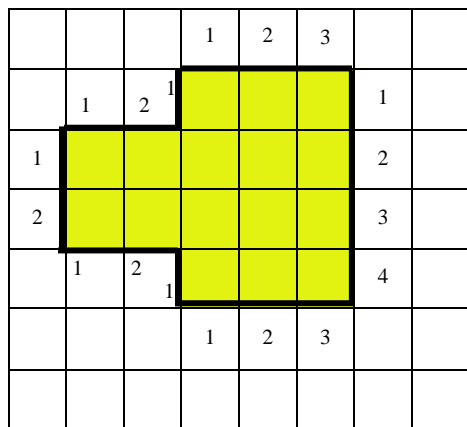
Each side of one ☐ is 1 cm

The yellow compound shape above has eight sides. To calculate the perimeter of the yellow shape, simply add the external measurements of all eight sides.
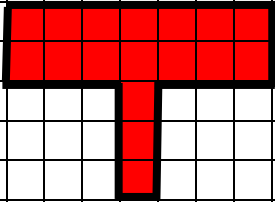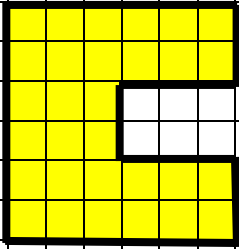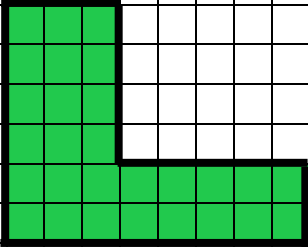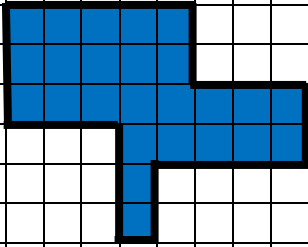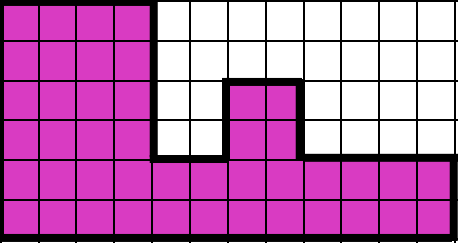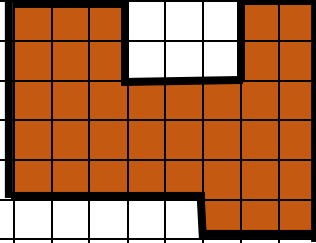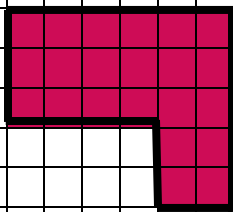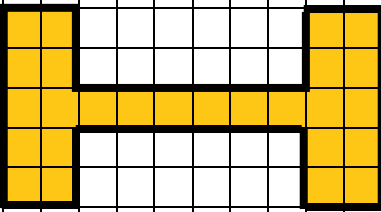
Perimeter = 3 cm + 4 cm + 3 cm + 1cm + 2 cm + 2 cm + 2 cm + 1 cm

= 18 cm

Click on the link below to create shapes and explore the calculation of their perimeter.

https://toytheater.com/area-perimeter-explorer/
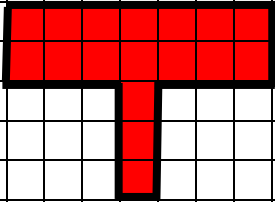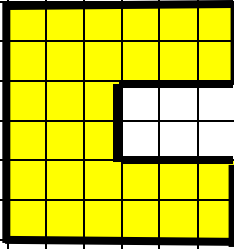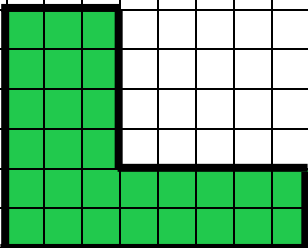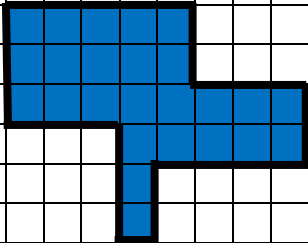
PRACTICE EXERCISE

Calculate the perimeter of each shaded compound shape below. Each side of one square measures 1 cm.

1)

2)

3)

4)

5)

6)

7)

8)

ANSWERS

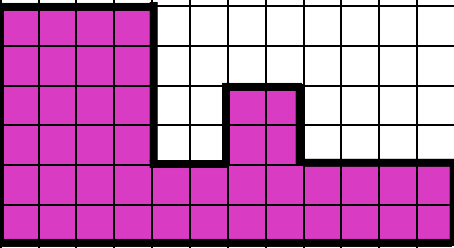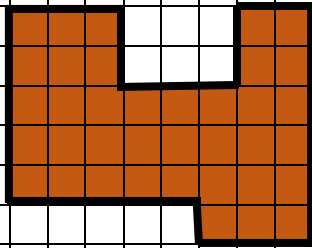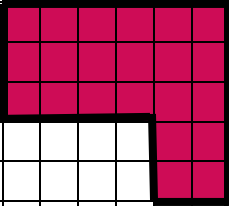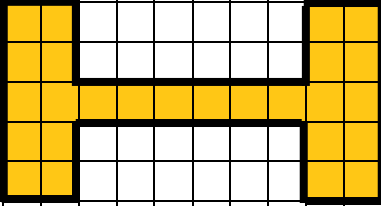Calculate the perimeter of each shaded compound shape below. Each side of one square measures 1 cm.

1)

Perimeter = 7 + 2 + 3 + 3 + 1 + 3 + 3 + 2
          = 24 cm

2)

Perimeter = 6 + 2 + 3 + 2 + 3 + 2 + 6 + 6
          = 30 cm

3)

Perimeter = 3 + 4 + 5 + 2 + 8 + 6
          = 28 cm

4)

Perimeter = 5 + 2 + 3 + 2 + 4 + 2 + 1 + 3 + 3 + 3
          = 28 cm

5)

Perimeter = 4 + 4 + 2 + 2 + 2 + 2 + 4 + 2 + 12 + 6
          = 40 cm

6)

Perimeter = 3 + 2 + 3 + 2 + 2 + 6 + 3 + 1 + 5 + 5
          = 32 cm

7)

Perimeter = 6 + 5 + 2 + 2 + 4 + 3
          = 22 cm

8)

Perimeter = 2 + 2 + 6 + 2 + 2 + 5 + 2 + 2 + 6 + 2 + 2 + 5
          = 38 cm