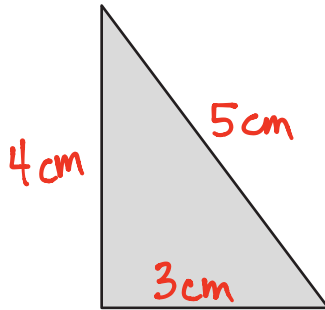Name _____   Date _____
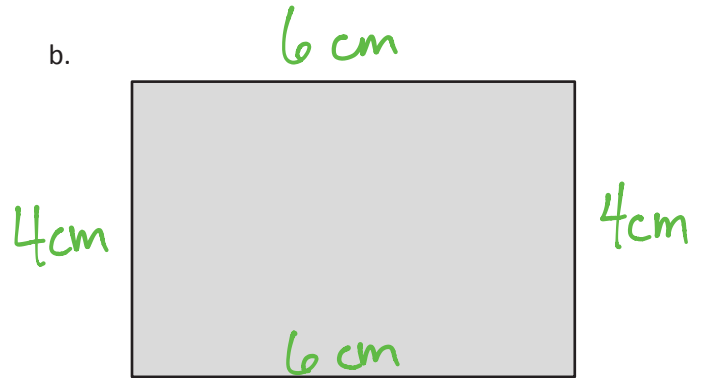
1. Measure and label the side lengths of the shapes below in centimeters. Then, find the perimeter of each shape.

a.

5cm
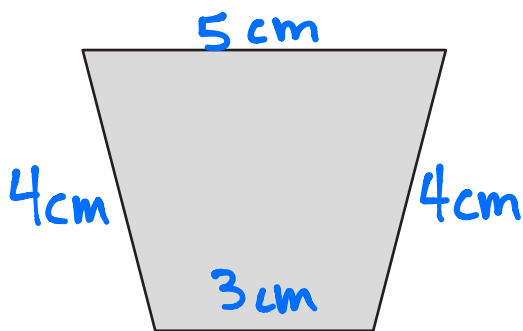
4cm

3cm

Perimeter = __3__ + __4__ + __5__

= __12__ cm

b.

6 cm

4cm   4cm

6 cm

Perimeter = 4cm + 6cm + 4cm + 6cm

= 20 cm

c.

5 cm

4cm   4cm

3cm

Perimeter = 3cm + 4cm + 4cm + 5cm

= 16 cm

d.

5 cm

5cm   5 cm

5cm
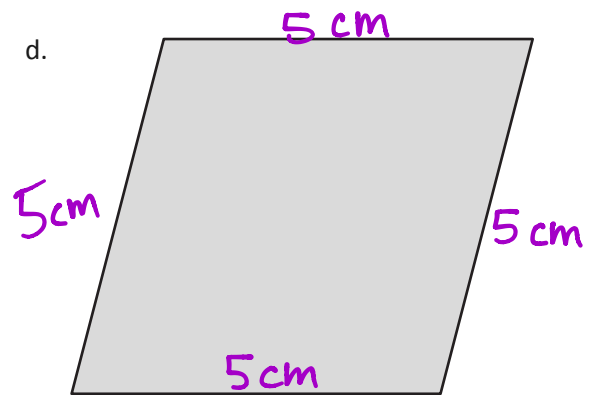
Perimeter = 5cm + 5cm + 5cm + 5cm

= 20 cm

e.

8 cm

4 cm

3cm   3cm

2cm   2cm

2cm   2cm
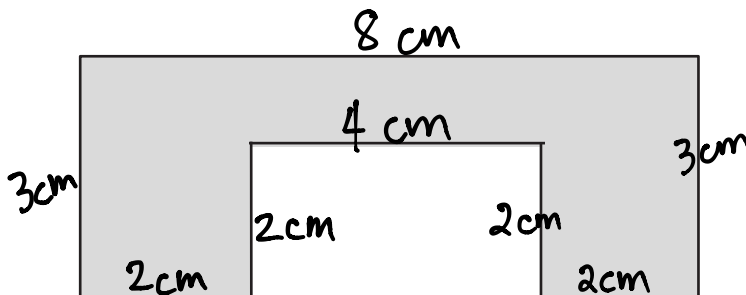
Perimeter = 8+3+2+2+4+2+2+3

= 26 cm

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Lesson 12:   Measure side lengths in whole number units to determine the perimeter of polygons.

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2. Melinda draws two trapezoids to create the hexagon shown below. Use a ruler to find the side lengths of Melinda's hexagon in centimeters. Then, find the perimeter.
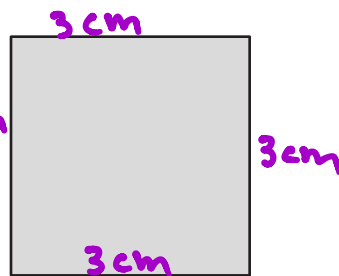
3cm
3 cm   3cm
3 cm   3cm
3 cm
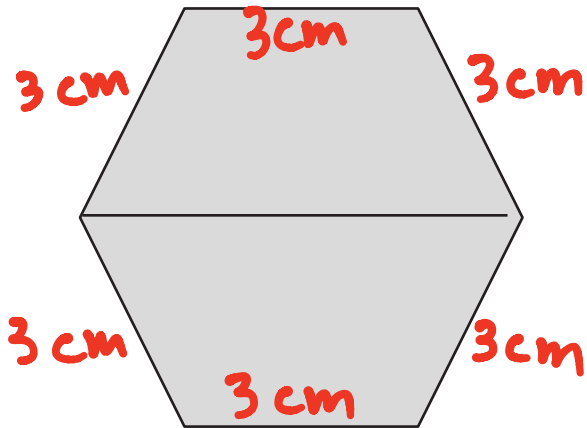
$6 \times 3cm = 18cm$

3. Victoria and Eric draw the shapes shown below. Eric says his shape has a greater perimeter because it has more sides than Victoria's shape. Is Eric right? Explain your answer.
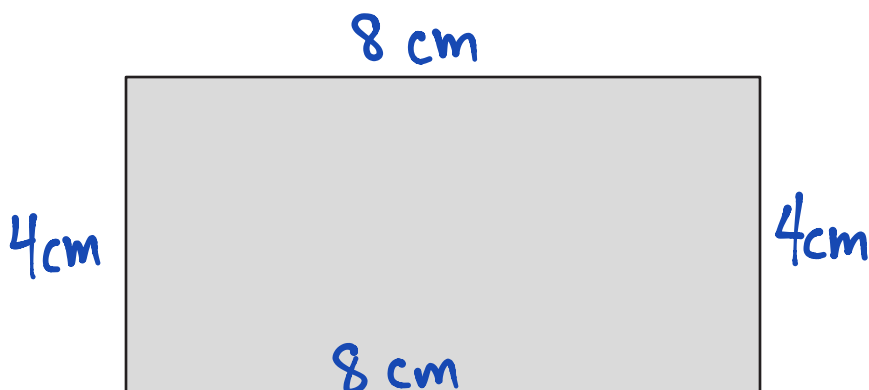
Victoria's Shape   **Eric's Shape**

3 cm

4cm   5cm   3cm   3cm

3cm   3 cm
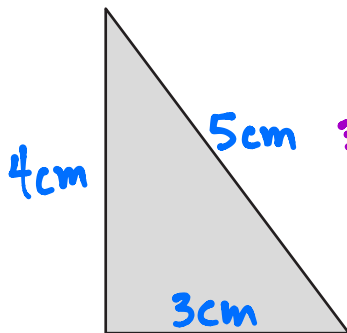
The greater perimeter is not determined by the number of sides. Perimeter is the distance around. In this case, the two figures have the <u>same</u> perimeter !

4. Jamal uses his ruler and a right angle tool to draw the rectangle shown below. He says the perimeter of his rectangle is 32 centimeters. Do you agree with Jamal? Why or why not?

8 cm

4cm   4cm

8 cm

No, because the perimeter is actually 24 cm.

$8cm + 4cm + 8cm + 4cm = 24cm$

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Lesson 12:   Measure side lengths in whole number units to determine the perimeter of polygons.