WORLD BOOK
Building Blocks of Math

Name:_____
Date:_____
Class:_____

Unique Spaces

The skateboard park has surfaces of all shapes and sizes. Before these areas are built, designers draw the shapes in smaller versions.

Design obstacles for this skate park. Follow the instructions on this page and the next to create the geometric figures. Draw freehand or use a ruler. Use a protractor to draw and measure angles. You may create your shapes on a computer or tablet, or use any other technology, if you wish. If you can't construct the figure, explain why it doesn't work.

1.
- quadrilateral
- two opposite 45º angles
- two sets of parallel sides
- one set of sides 4 cm each

The figure is a _____

2.
- rhombus
- no right angles
- side = 3.5 cm

Each angle measures _____

3.
- polygon
- six equal sides
- side = 2 cm

Each angle measures _____

4.
- quadrilateral
- side a = 3 cm
- side b = 2 cm
- side b is parallel to side a
- two 90º angles

The figure is a _____

Label each figure with the matching problem number.

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Unique Spaces continued

Continue to create geometric figures according to the instructions. Keep your protractor and ruler handy. If you can't construct the figure, show why it doesn't work.

5.
- pentagon
- all sides = 2 cm

Each angle measures

_____

6.
- triangle
- side a = $\frac{1}{2}$ cm
- side b = 2 cm
- side c = 3 cm

Is this possible?

_____

7.
- quadrilateral
- side a = 2.5 cm
- side b = 1 cm
- side a and b joined by a right angle
- only two right angles

The figure is a

_____

Label each figure with the matching problem number.

8.
- triangle
- side a = 3 cm
- two right angles

Is this possible?

_____

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