

Application Problems

K.6.1

Materials: (S) Markers, paper

We are going to be talking about shapes again! Draw several things you saw this past week that looked like shapes you know.

What are the different shapes called?

Share your picture with your partner. Talk about each of the shapes and how you knew its name. Does your partner agree with you?

K.6.2

None

K.6.3

Materials: (S) Geoboard and rubber bands per pair (or dot paper, markers, ruler if geoboards are not available)

You have a challenge today! Work with your partner. On your geoboard, make a shape with three sides. Now leave your shape on your board and let your partner make a three-sided shape as well. Do they look the same? Name the shapes.

Now make a shape with four sides. Have your partner make another four-sided shape. Do they look alike? Name the shapes.

Try it with five sides! Then, six! How far can you and your partner go?

K.6.4

Materials: (S) Personal white boards

☑ First, draw 3 three-sided shapes on your board.

☑ Second, draw 4 four-sided shapes on your paper.

☑ Third, draw a number bond and write a number sentence to tell how many shapes you have in all.

Share your work with your partner. Do your shapes look the same? Do your number bonds look the same? How about your number sentences?

K.6.5

Materials: (S) Personal white boards

Listen carefully to my instructions. You are going to draw a house!

☑ First, draw a square to make the big part of your house.

☑ Second, use a triangle to make a roof.

☑ Third, use a shape of your choice for a door.

☑ Fourth, find somewhere in your picture where you can use two more squares or rectangles.

☑ Fifth, use a circle somewhere in your scene.

☑ Sixth, find a place where you could draw a hexagon in your scene.

Take another minute to finish your scene with more shapes and details. Don't forget to draw yourself!

Now show your picture to your partner. Tell her about each of your shapes. Do your houses look alike? How did you use shapes differently in your pictures?

K.6.6

Materials: (S) Personal white boards

You are going to be a detective today!

☑ First, look around the classroom to see if you can find things made of more than one shape, like we did yesterday.

☑ Second, draw it on your personal board.

☑ Third, use your marker to show the shapes inside.

If necessary, give hints about items such as tiles, bricks, windowpanes, and so on. Encourage students to look for and highlight the shapes within shapes on their boards.

T: Turn and talk to your partner about the hidden shapes that you found!

K.6.7

Materials: (S) Personal white board, ruler

T: Pretend you are a baker! Draw a big rectangle on your personal board to show a delicious pretend chocolate cake.

T: Now, use your ruler and draw lines to show how you would slice it to serve his or her friends. Where would you draw the lines? How many pieces did you make?

T: Compare your cake to your partner's. Did you both do it the same way? Who has more pieces?

K.6.8

There will be no Application Problem today in order to allow more time for the cumulative project.