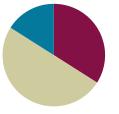
Lesson 1

Objective: Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.

Suggested Lesson Structure

Total Time	(50 minutes)
Student Debrief	(8 minutes)
Concept Development	(25 minutes)
Fluency Practice	(17 minutes)



Fluency Practice (17 minutes)

- Making 5 with 5-Group Mats K.OA.1 (6 minutes)
 Draw More to Make 5 K.OA.3 (8 minutes)
- 5-Group Hands K.CC.2 (3 minutes)

Making 5 with 5-Group Mats (6 minutes)

Materials: (S) 5-group mats (Fluency Template 1), 5 linking cubes

Note: While students are working with geometry, the fluency goal throughout Module 2 will be to maintain and further develop number concepts to 10 (see Fluency Practice note in Kindergarten Module 1 Lesson 1).

- T: Touch and count your cubes.
- S: 1, 2, 3, 4, 5.
- T: Touch and count the dots on your mat.
- S: 1, 2, 3, 4, 5.
- T: Our job is to make 5. Put 4 cubes on the dots of your mat. (Check to see that students place the cubes from left to right without skipping any dots.) Raise your hand when you know how many more cubes to make 5. (Wait until all hands are raised, and then signal.) Ready?
- S: 1.
- T: We can tell how to make 5 like this: 4 and 1 make 5. Echo me, please.
- S: 4 and 1 make 5.

Continue working through the decompositions of 5 in a systematic way. As students begin to demonstrate mastery, scale back the amount of guidance: "Show me X cubes; say the number sentence."



Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.



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Draw More to Make 5 (8 minutes)

Materials: (S) Draw more (Fluency Template 2)

Note: Go over the answers, and direct students to energetically shout "Yes!" for each correct answer.

After giving clear instructions and completing the first few problems together, allow students time to work independently. Encourage them to do as many problems as they can within a given time frame.

5-Group Hands (3 minutes)

Materials: (T) Large 5-group cards (5–7) (Fluency Template 3)

- T: (Show the 6-dot card.) Raise your hand when you know how many dots are on top. (Wait until all hands are raised, and then signal.) Ready?
- S: 5.
- T: Bottom?
- S: 1.
- T: We can show this 5-group on our hands. Five on top, 1 on the bottom, like this. (Demonstrate on hands, one above the other, as shown to the right.)
- S: (Show 5 and 1 on hands, one above the other.)
- T: Push your hands out as you count on from 5, like this. 5 (extend the top hand forward), 6 (extend the bottom hand forward). Try it with me.
- S: 5 (extend the top hand forward), 6 (extend the bottom hand forward).

Continue with 5, 6, and 7, steadily decreasing guidance from the teacher, until students can show the 5-groups on their hands with ease.

X VZ

Lesson 1

A student demonstrates 7 as 5 on top and 2 on the bottom.

Concept Development (25 minutes)

Materials: (T) Large cutouts of each shape (to be affixed to the board with tape) (Template)
 (S) Clear bag containing smaller cutouts of various shapes (all of one hue to limit distractions from variation in color), blank side of Problem Set affixed to clipboard, pencil, real or toy magnifying glass (if available)

Suggestions for shape cutouts are pictured as follows but need not be limited to these. Be sure to include, at minimum, a triangle, circle, square, rectangle, and hexagon for discussion purposes.

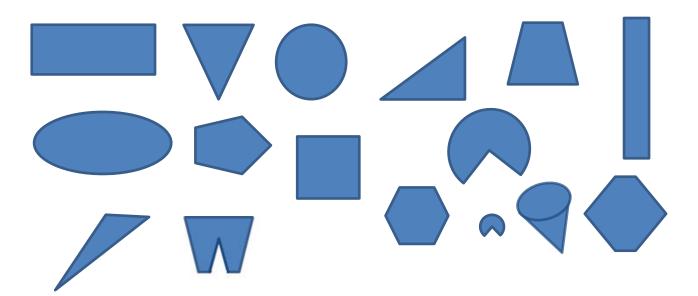
Note: Today's lesson focuses on the attributes of the shapes but *not* their specific names. Assure students that tomorrow's work will include naming the shapes since many may be very eager to share their knowledge.



Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.







- T: You have a mystery bag! Open your bag, and carefully shake out the surprises inside. What do you see? (Give students a moment to explore the contents of the bag and discuss with their friends.)
- S: Different shapes!
- T: (Select a shape from the bag.) Look at my shape. Can you find the one that looks like mine? (Affix the shape to the board.) Tell me about the shape. (In order to encourage a discussion purely about geometric attributes, select one of the more unusual cutouts to begin.)
- S: It is round. \rightarrow But, it is pointy! \rightarrow It has a piece missing. \rightarrow It has three sides.
- T: I like your observations! (Write student responses on chart paper, and continue the exercise with the rest of the shapes, encouraging students to verbalize attributes such as corners, curves, straight lines, number and length of sides, "missing pieces," etc.)
- T: Arrange your shapes on your desktop. Do they have anything in common? (Responses will vary.) Now, bend down so that you are looking across the edge of your desktop. Can you see your shapes now? Are any of them sticking up?



English language learners benefit from having the words *curved, straight, pointy, round, sides,* and other attributes introduced before the lesson so that they can participate in the discussion with the class. After introducing them, post the vocabulary on the word wall with visuals so that students can refer to them.

- S: We can't see them. \rightarrow They are all flat!
- T: Yes, they do have that in common! These are all **flat shapes**. Put your shapes back in the bag.



MP.6

Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.



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- T: It's time to play shape detectives! Detectives need to have special equipment, so I am going to give you and a partner a magnifying glass to use if you need it. You are going to go on a shape hunt around the room. Whenever you see an interesting shape, tell your partner about it, and draw it on your paper. Take your bag of shapes with you to use as clues. Maybe you will see some shapes in the room that match shapes in your bag!
- S: (With partners, search for shapes, and re-create them on their clipboards.)
- T: (After five minutes, call students back to their seats.) Does anyone want to share one of the shapes they found? Tell us about it! (Allow time for sharing and discussion.)



MULTIPLE MEANS OF ENGAGEMENT:

Lesson 1

Push students working above grade level by asking them questions and assigning activities that engage thinking at higher levels. "What would that shape look like if it was not flat?" "Can you make a picture of that shape but make it so that it is sticking up?"

T: Maybe you will find more shapes to add tonight. Turn your Problem Sets over so that we can do some shape coloring and matching.

Problem Set (10 minutes)

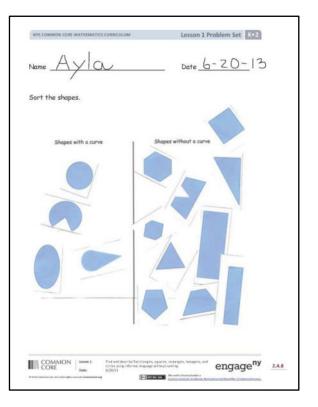
Students should do their personal best to complete the Problem Set within the allotted time.

For some classes, it may be appropriate to modify the assignment by specifying which problems students should work on first. With this option, let the purposeful sequencing of the Problem Set guide your selections so that problems continue to be scaffolded. Balance word problems with other problem types to ensure a range of practice. Assign incomplete problems for homework or at another time during the day.

In this Problem Set, all students should begin with sorting the shapes that clearly have or do not have curves and possibly leave any questionable shapes to the end if time permits.

Suggestions for other ways you may ask students to sort are listed below:

- Shapes that have curves and sharp points.
- Shapes that have only curves.
- Shapes that have four or fewer corners.
- Shapes that have four or more sides.





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Student Debrief (8 minutes)

Lesson Objective: Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.

The Student Debrief is intended to invite reflection and active processing of the total lesson experience.

Invite students to review their solutions for the Problem Set. They should check work by comparing answers with a partner before going over answers as a class. Look for misconceptions or misunderstandings that can be addressed in the Debrief. Guide students in a conversation to debrief the Problem Set and process the lesson.

Any combination of the questions below may be used to lead the discussion.

- Which objects did you sort that were curved? Which objects did you sort that were not curved?
- Which flat shapes were the hardest to sort? Why?
- Explain to your partner which shapes you drew on the back of your paper. Can you think of other objects around you that have these same shapes?
- What new (or significant) math vocabulary did we use today to communicate precisely?
- How can you tell about each shape without using the shape's name?

Homework

Homework at the K–1 level is not a convention in all schools. In this curriculum, homework is an opportunity for additional practice of the content from the day's lesson. The teacher is encouraged, with the support of parents, administrators, and colleagues, to discern the appropriate use of homework for his or her students. Fluency exercises can also be considered as an alternative homework assignment.



Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.



Name	Date	

Sort the shapes.

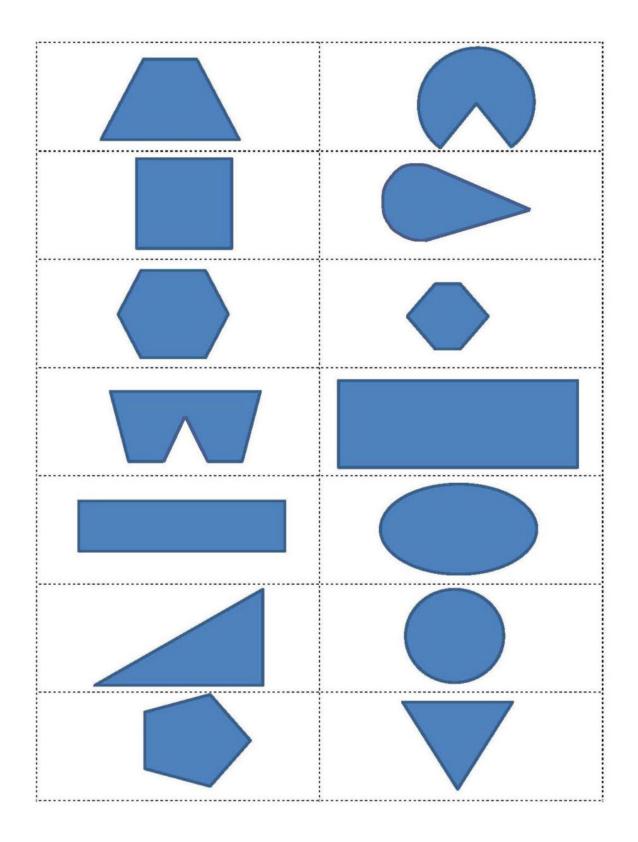
Shapes with a Curve

Shapes without a Curve



Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.





EUREKA MATH

Lesson 1:

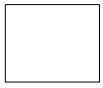
Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.



Name _____ Date _____

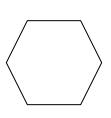
Draw a line from the shape to its matching object.

















EUREKA MATH

Lesson 1:

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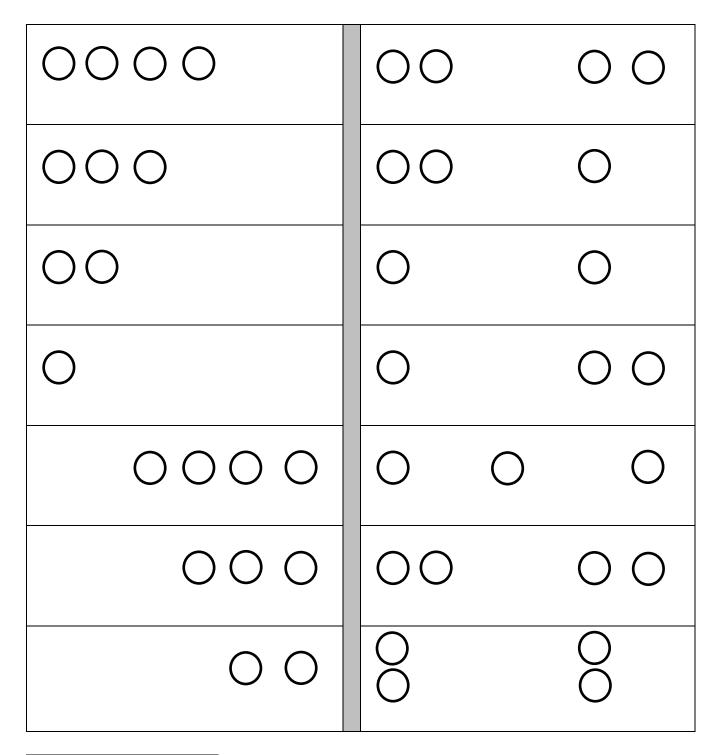
5-group mat



Find and describe flat triangles, squares, rectangles, hexagons, and circles using informal language without naming.



Draw more to make 5.



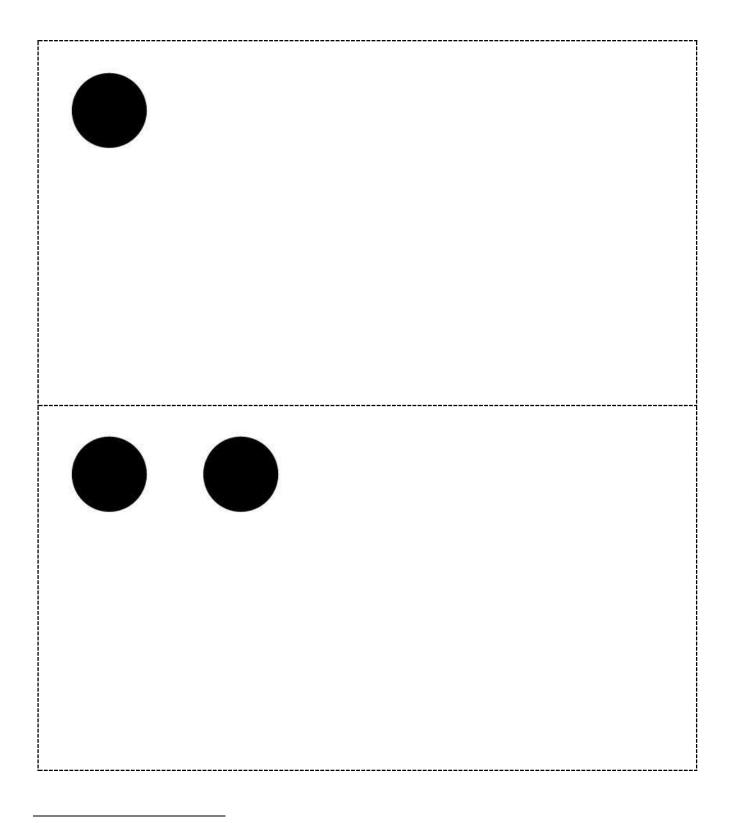
draw more



Lesson 1:

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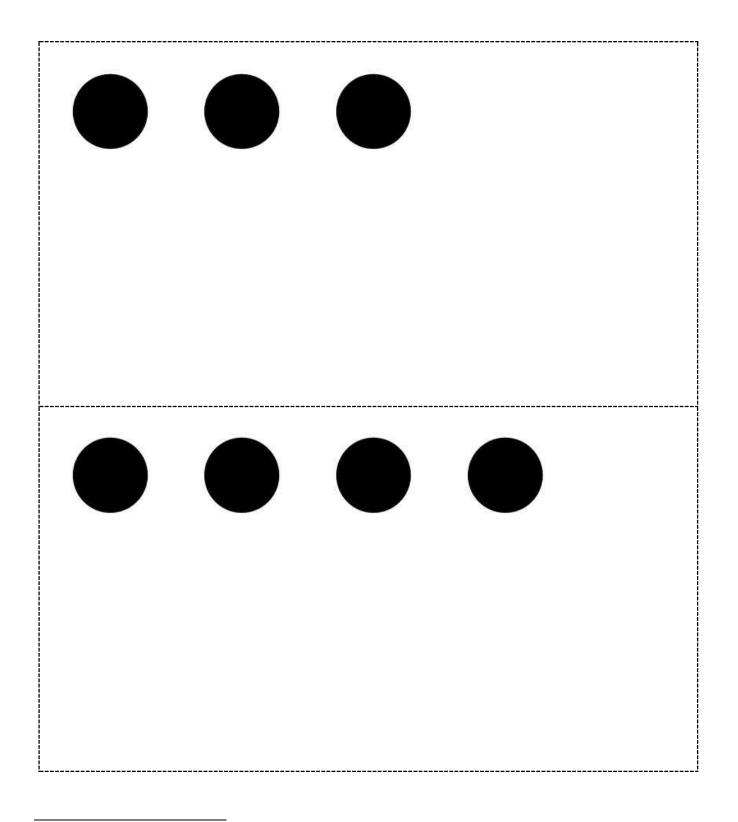


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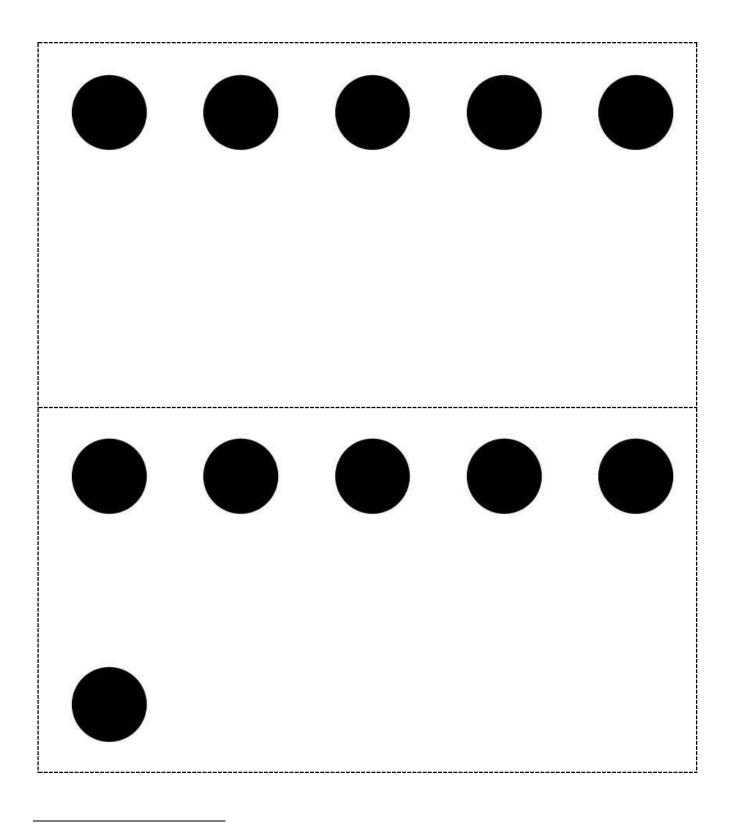


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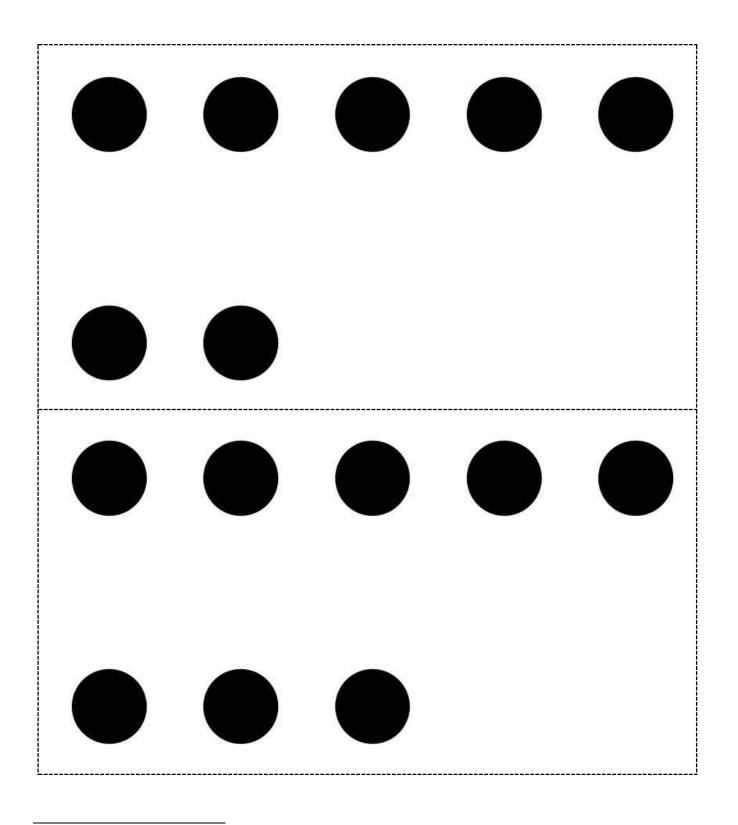


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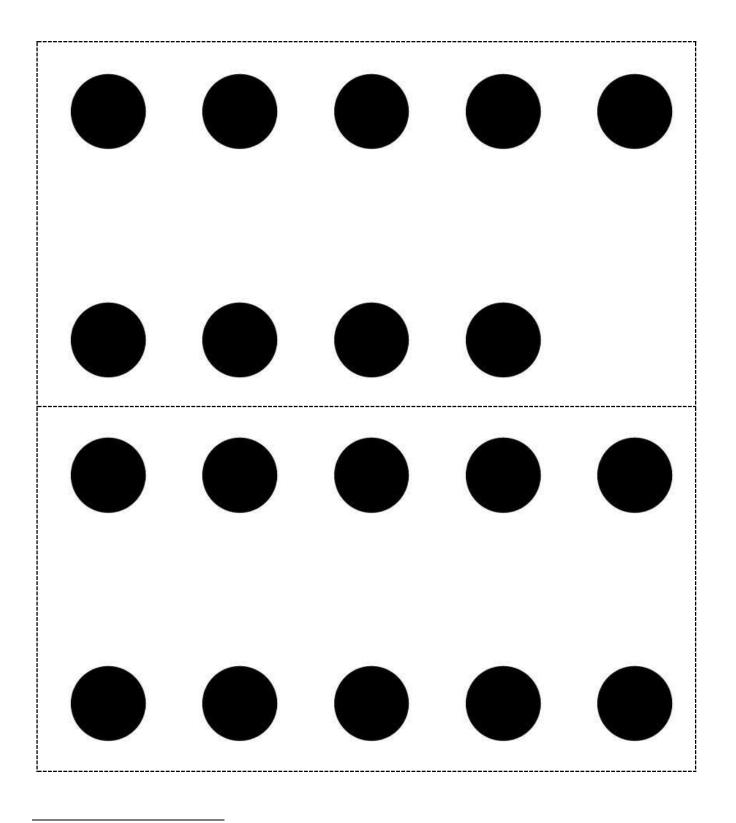


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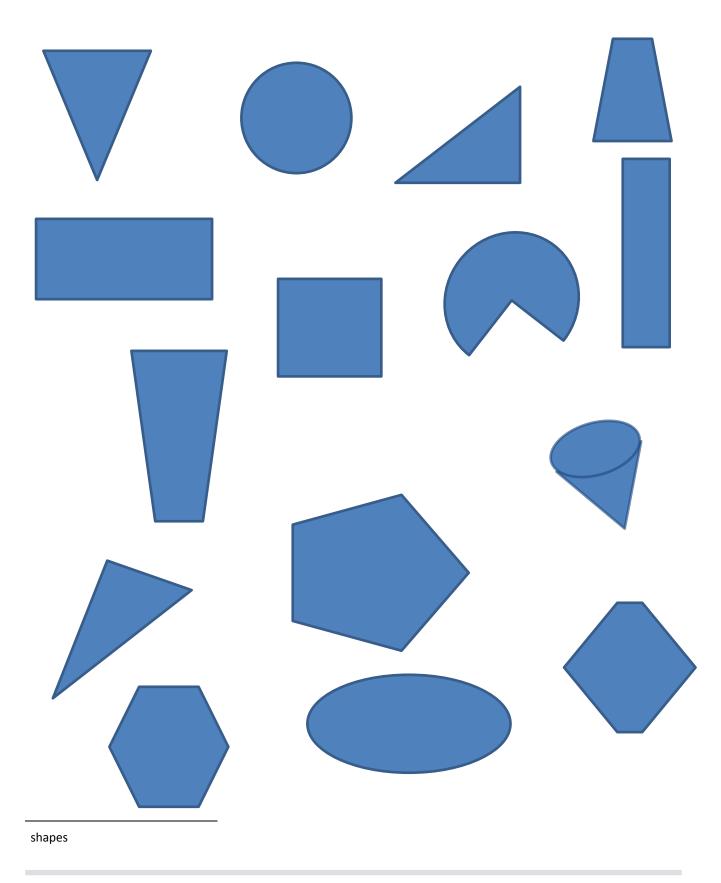
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