

Geometry Concepts for Primary Grades (1 - 2)

Teacher Directions

Overview

For this test, you will read the directions for each test item to the student. Some items require manipulatives. Be sure to have these ready for each student prior to giving the test. Download sheets A, B, and C.

For item #5: Cubes, one per student. (These can be any size. If manipulatives are not available use sugar cubes.)

For item #11: One square and two triangles for students to trace (sheet A).

For item #12: Square with design run on plastic (sheet B).


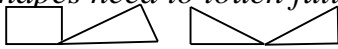
For item #15: Various shapes cut out prior to testing (sheet C).

Distribute each specific manipulative just prior to reading that test question!

You may read each item to the students a maximum of two times. Allow adequate time for students to complete the item before moving on to the next test item. On items requesting written responses, do not spell words for students. Encourage students to write letters for the sounds they hear. They may also draw diagrams if they wish.

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1. Find the number 1. Put your finger on it. Look at the shape next to the number 1. What is the name of this shape?
If the shape is a square, fill in bubble A.
If the shape is a triangle, fill in bubble B.
If the shape is a circle, fill in bubble C.
If the shape is a rectangle, fill in bubble D.
 2. Find the number 2. Look at the shapes inside the loop. They have been sorted in the loop because they are alike in some way.
If these shapes are all small, fill in bubble A.
If these shapes are all squares, fill in bubble B.
If these shapes all have 3 sides, fill in bubble C.
If these shapes are all large, fill in bubble D.
Turn to the next page
 3. Find number 3. Look at the two groups of objects. The shapes have been sorted into 2 groups by an attribute or rule. How have these shapes been sorted?
If the shapes have been sorted by their size, fill in bubble A.
If the shapes have been sorted by their color, fill in bubble B.
If the shapes have been sorted by their shape, fill in bubble C.

4. Find number 4. Look at the solid shape next to number 4. What is the name of this shape?
If it is a square, fill in bubble A.
If it is a cube, fill in bubble B.
If it is a rectangular prism, fill in bubble C.
If it is a triangle, fill in bubble D.
5. *Pass one cube to each student before reading item 5.* Look at your cube. Put your finger on number 5. The first question asks, "What shape are the faces?" Write the name of the shape of the faces on the line. The next question asks, "How many faces are there?" Count the faces and write this number on the line. Turn to the next page.
6. Find number 6. Look at the picture of the milk carton. Which shapes make up this milk carton? Now look at the shapes. Which pair of shapes makes the same shape as the milk carton?
7. Find number 7. Look at the shape. What can you tell me about the shape? Write down as many things as you can about this shape. Turn to the next page.
8. Look at the number 8. Find the box under the number 8. Look at the shape inside of the box. Now look at the other shapes. Which shape is the same as the shape in the first box?
Fill in the bubble underneath the shape that is the same as the shape in the first box.
9. Find number 9. Look at the shape inside the box under the number 9. Now look at the other shapes. Which shape has the same number of vertices or corners as the shape in the box?
10. Look at number 10. Look at the two shapes. What would you do to the first shape to make it look like the second shape?
If you would turn or rotate the shape, fill in bubble A.
If you would slide or translate the shape, fill in bubble B.
If you would flip or reflect the shape, fill in bubble C.
Turn to the next page.
11. *Pass out manipulatives for item 11. (Sheet A, cut out).* Take the shapes out of the packet. Pretend they are pieces of a puzzle. On your paper next to number 11 you will be putting the shapes together to make a new shape. When you put two shapes together, make sure the sides match. (*Demonstrate what is and is*

not allowed. Shapes need to touch full side to full side.) Allowed -  Not allowed -  Use all three shapes to make your new shape. (*Wait for students to make shape.*) Now trace around your new shape. Go all the way around the outside of your shape. (*Wait for the students to outline shape.*) Put away your pieces. Look at the shape you traced. On the lines under your shape using math words, write down as many things as you can about your shape.

12. *Pass out manipulatives for problem 12.(Sheet B, square duplicated on a transparency).* Look at number 12. Lay your square on top of the first square, so it matches. (*Assist students as needed.*) Now change the shape. (*Wait as students change shape.*) Draw how the shape looks now in the second square. Tell how you changed the shape on the lines. Turn to the next page.

13. Look at the Venn diagram next to number 13. Look at how the shapes are sorted. Think, “How are the shapes in each circle the same?” What label can you give to tell how the shapes in the first circle are alike? Write the word or words on the line. Now look at the second circle. What label can you give to tell how the shapes in the second circle are alike? Write the word or words on the line.

14. Find the number 14. Listen carefully. I am going to read you some clues. Think about what shape it is.
 I am a flat shape. I have 5 corners or vertices. I have 5 sides. Now listen as I read the clues again. When I am finished reading the clues, you will draw the shape on your paper, next to number 14.
 I am a flat shape. I have 5 corners or vertices. I have 5 sides.
 Now find number 14. Draw the shape on your paper. Turn to the next page.

15. *Pass out manipulatives for problem 15. (Sheet C, various shapes, cut out prior to test).* **Hold up the Venn diagram.** Look at the Venn diagram. One circle is labeled small. The other circle is labeled 4 sides. Now take the shapes out of the envelope. Look at the shapes. Sort the shapes by putting them on the Venn diagram. Remember one circle is labeled small. The other circle is labeled 4 sides. When you have put all the shapes in the correct part of the Venn diagram, glue them to your paper.