

Name _____



TEKS Geometry and Measurement—1.6.E

MATHEMATICAL PROCESSES

1.1.C, 1.1.E, 1.1.F, 1.1.G

15.1

HANDS ON

Two-Dimensional Shapes on Three-Dimensional Solids



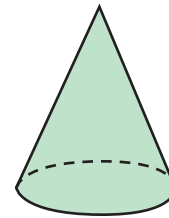
Essential Question

What two-dimensional shapes do you see on the flat surfaces of three-dimensional solids?

Explore



Use a cone.



Math Talk



Mathematical Processes

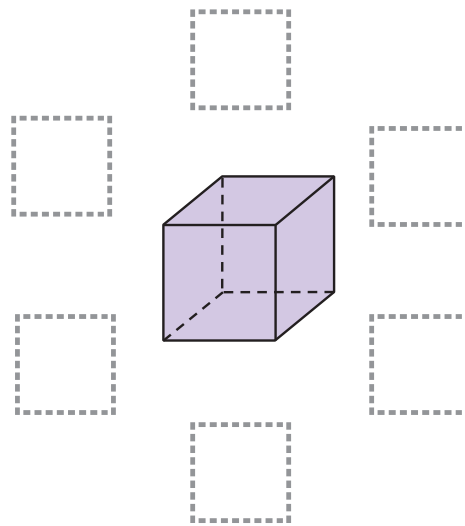
What other solid could you use to draw the same kind of picture? **Explain.**



FOR THE TEACHER • Read the following problem, and have children use the workspace to act it out. Lee places a cone on a piece of paper and draws around its flat surface. What does Lee draw?

Model and Draw

Trace around the **flat surfaces** of the three-dimensional solid to find the two-dimensional shapes.

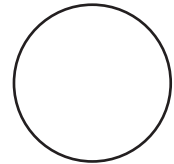
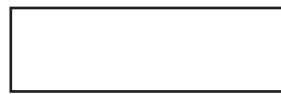
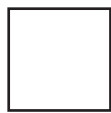
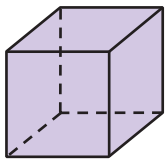


Share and Show

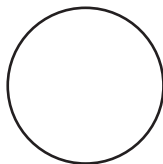
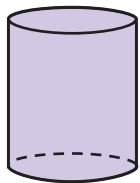


Use three-dimensional solids. Trace around the flat surfaces. Circle the shapes you draw.

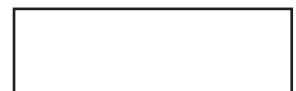
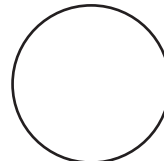
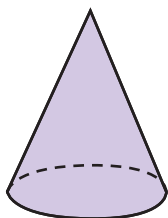
1.



2.



3.

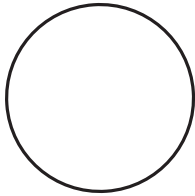


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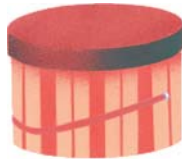
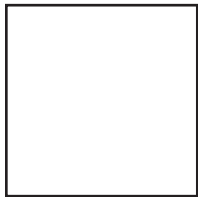
Problem Solving

Circle the objects you could trace to draw the shape.

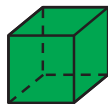
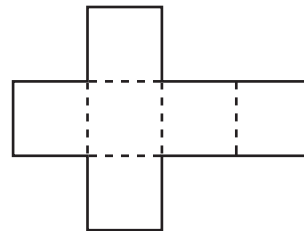
4.



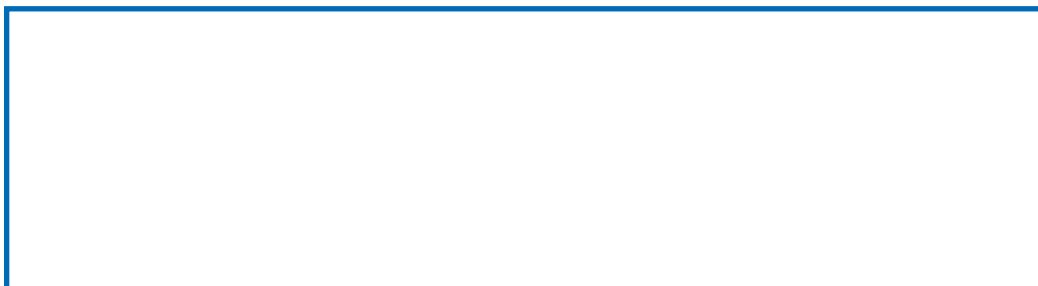
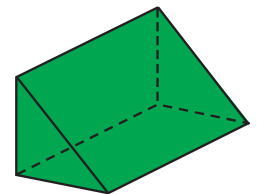
5.



6. **H.O.T.** Circle the solid that the pattern will make if you fold it and tape it together.



7. **H.O.T. Multi-Step** Draw two different shapes you could make if you traced this solid.

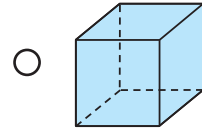
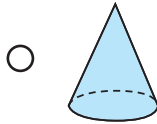
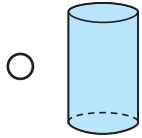
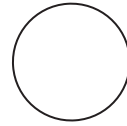




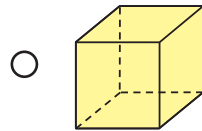
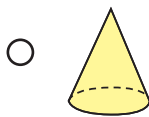
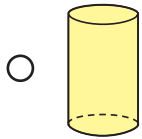
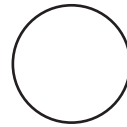
Daily Assessment Task

Choose the correct answer.

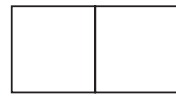
8. Carl buys a toy for his cat. The top and the bottom of the toy looks like this. Which shows the shape of the toy?



9. **Analyze** Donna buys a toy for her dog. Only the bottom of the toy looks like this. Which shows the shape of the toy?



10. **Multi-Step** Judy traces two sides of a solid. Draw the solid that she uses. Explain how you know that your answer is reasonable.



11. **TEXAS Test Prep** Which flat surface does a cube have?



TAKE HOME ACTIVITY • Collect a few three-dimensional objects that are shaped like spheres, cones, cylinders, and cubes. Ask your child what two-dimensional shapes are on those objects.

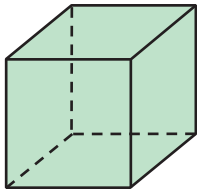

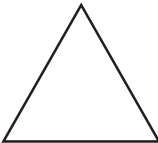
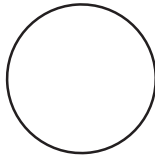



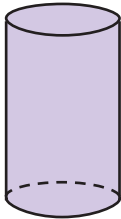
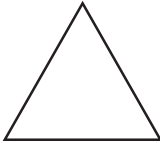
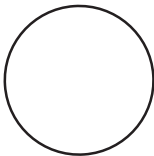


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15.1 Two-Dimensional Shapes on Three-Dimensional Solids

HANDS ON

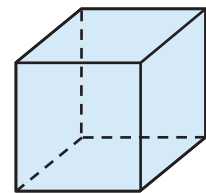
Look at the three-dimensional solid. Circle the shapes you would draw if you traced around the flat surfaces.

1.     

2.     

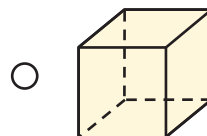
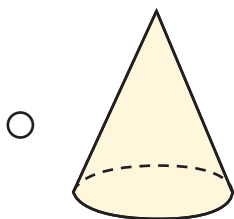
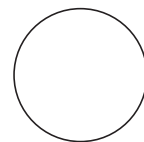
Problem Solving

3. Draw a shape you could make if you traced this cube.

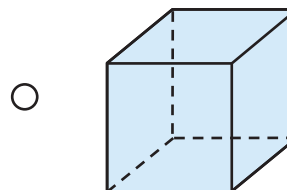
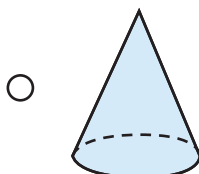
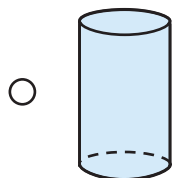


Choose the correct answer.

4. Maggie bakes a cake. The top and the bottom of the cake look like this. Which shows the shape of the cake?



5. **Multi-Step** Michael makes a board game in the shape of a rectangle. He traces around two faces of a solid. Which solid does he trace?



6. Which flat surface does a cone have?

