

North Penn School District
Elementary Math Parent Letter

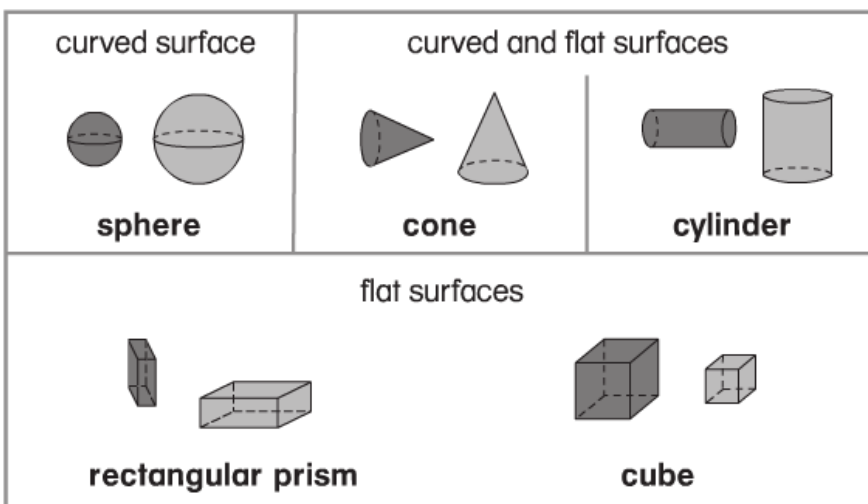
Grade 1

Unit 6 -- Chapter 11: Three-Dimensional Geometry

Examples from each lesson

Lesson 11.1

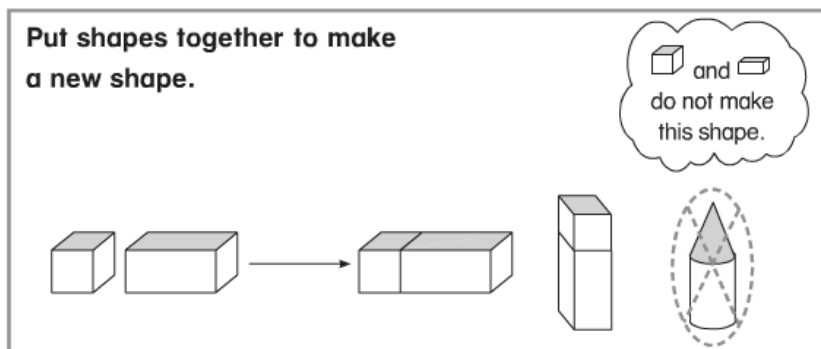
Three-Dimensional Shapes Reason with shapes and their attributes.



More information on this strategy is available on Animated Math Model #46.

Lesson 11.2



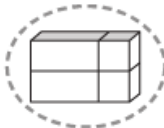

Combine Reason with shapes and their attributes.
Three-Dimensional Shapes



Lesson 11.3

Make New Three-Dimensional Shapes





Reason with shapes and their attributes.

| | |
|---|--|
| <p>Build a shape.</p>  | <p>Copy the shape.</p>  |
| <p>Combine them.</p> <p>Circle a new shape you can make.</p> | |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;"> <p>You cannot make this new shape. The first shapes did not stay the same.</p> </div> </div> | |

Lesson 11.4

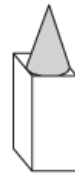
Problem Solving • Take Apart Three-Dimensional Shapes

Reason with shapes and their attributes.







Kate has , , , and .

She built a tower.

Which shapes did Kate use to build the tower?



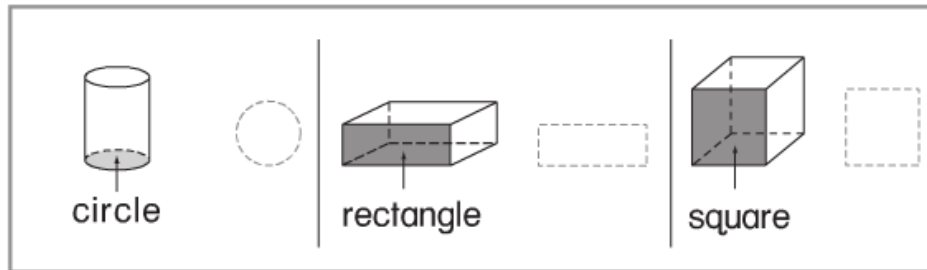
Unlock the Problem

| | |
|---|---|
| <p>What do I need to find?</p> <p>_____</p> <p>which shapes</p> <p>Kate used to build the tower</p> | <p>What information do I need to use?</p> <p>Kate has these shapes.</p> <div style="text-align: center;">  </div> |
| <p>Show how to solve the problem.</p> <p>Find the matching shapes.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  </div> <div style="margin-right: 20px;">  </div> <div style="margin-right: 20px;">  </div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;">  </div> <div>  </div> </div> | |

Lesson 11.5

Two-Dimensional Shapes on Three-Dimensional Shapes

Reason with shapes and their attributes.



More information on this strategy is available on Animated Math Model #47.

Vocabulary

Cone – a three-dimensional shape with a round base and a point at the top

Cube – a square three-dimensional shape such as a box

Curved surface – a rounded surface

Cylinder – a three-dimensional shape with flat circular ends and a curved surface such as a tube

Flat surface – a level surface

Rectangular prism – a rectangular three-dimensional shape such as a brick

Sphere – a round three-dimensional shape such as a ball