Grade 3 Mathematics: Geometry and Transformations

Free sample lesson

Ontario curriculum: Mathematics (2020), Strand E, overall expectation E1. 14 days.

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This is Lesson 1 of 11 from the full unit, exactly as it appears in the Teacher Guide, followed by the student worksheet. The full unit is at unitplans.ca.

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Lesson 1: Meet the solids

1 day · about 40 minutes · E1.1

> **Learning goal**
>
> - We are learning to name solid shapes by how they look.

> **Success criteria**
>
> - I can name a cube, a cone and a sphere.
> - I can name a cylinder and a pyramid.

Materials

- Real solids (boxes, cans, balls, funnels)
- Geometric solid sets
- Sorting hoops

What students do with their hands

Students handle real boxes, cans, balls and party hats, then sort them into groups they choose and say why.

Minds On (8 min)

1. Pass a ball, a box and a can around. Ask: "How are these different?"
2. Students share what they feel and see.

Action (22 min)

1. Name each solid and hold it up: cube, rectangular prism, pyramid, cylinder, cone, sphere.
2. Students find each solid in the room and sort their finds.
3. Complete the worksheet.

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Consolidation (10 min)

1. Play "I spy a solid" with the class.
2. Exit: "What is the name of a ball shape?"

Questions to ask

- How can you tell a cone from a pyramid?
- Which solids can roll?

Watch for

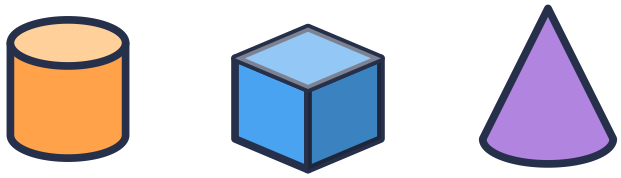
- Some students call every solid a "box". Name them often and ask what is different.
- Some call a solid a square or a circle. These are flat shapes; solids are 3-D.

Differentiation

Support	Extend
Hold the real solid while looking at the picture.	Find a solid at home for each name.

Answer key: Name the solid

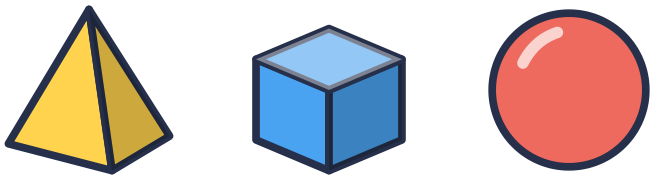
1. Circle the cube.



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> **Answer:** The cube.

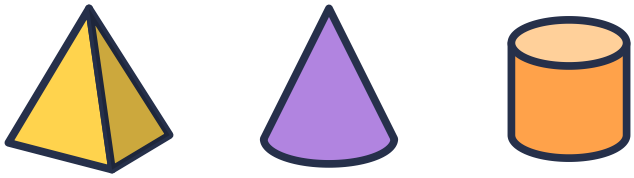
2. Circle the sphere.



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> **Answer:** The sphere.

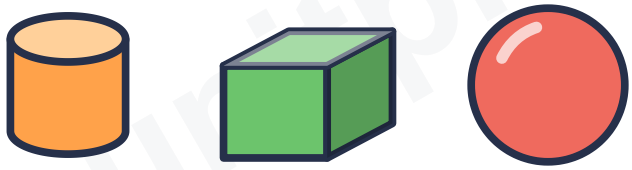
3. Circle the cone.



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> **Answer:** The cone.

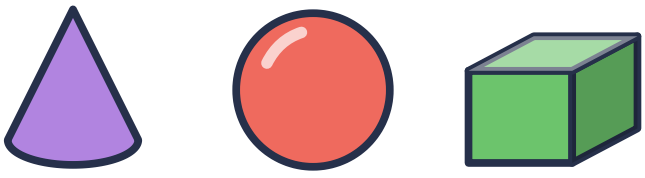
4. Circle the cylinder.



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> **Answer:** The cylinder.

5. Circle the rectangular prism, a box shape.



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> **Answer:** The rectangular prism.

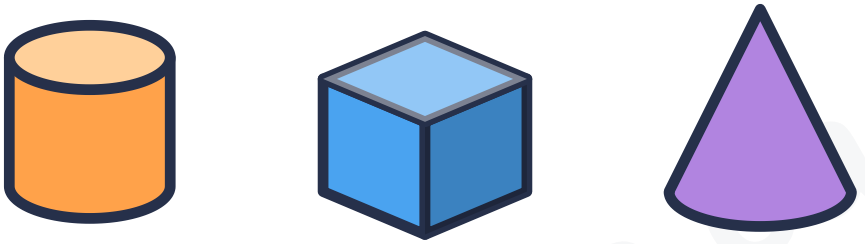
Student worksheet: Name the solid

Success criteria

- I can name a cube, a cone and a sphere.
- I can name a cylinder and a pyramid.

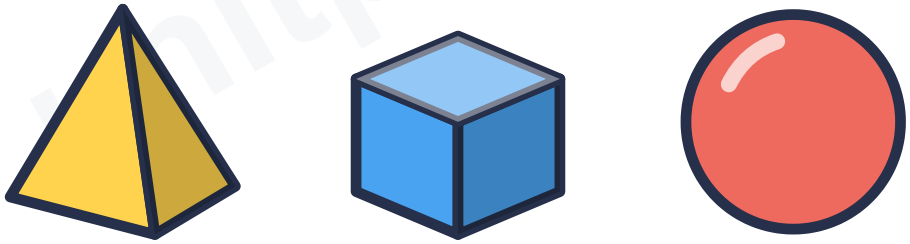
Look at the solids. Circle the one asked for.

1 Circle the cube.



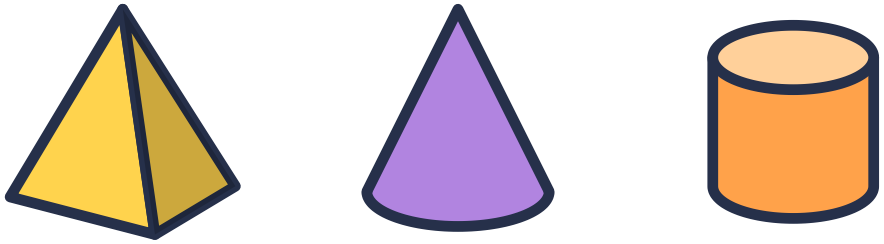
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2 Circle the sphere.

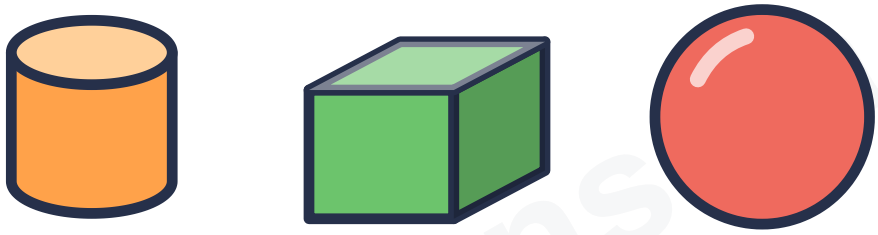


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3 **Circle the cone.**



4 **Circle the cylinder.**



5 **Circle the rectangular prism, a box shape.**

