



GRADE 1 / WATCH MR DJ SOLVE

BUILDING WITH SOLID SHAPES

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

Build a tower using 2 cubes. Draw or tell which solids you used.

- 1 Stack the cubes.
- 2 Point to each cube.
- 3 Name the solid pieces.

Answer: 2 cubes.



REMEMBER build new designs from solid shapes and name the smaller pieces.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 1 / WORKED METHODS

BUILDING WITH SOLID SHAPES

Read a complete example before trying the matching method.

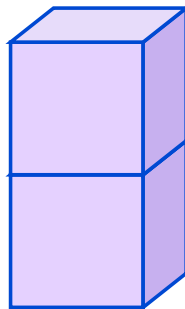


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A tower keeps its smaller cubes

2 cubes make a tower

1. Use two real cubes.
2. Stack one above the other.
3. Both cubes remain inside the design.



2 cubes in one tower



GRADE 1 / WORKED METHODS

BUILDING WITH SOLID SHAPES

Read a complete example before trying the matching method.

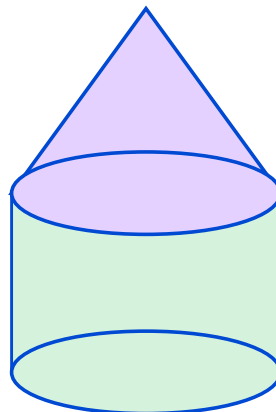


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Different solids can join

A cylinder with a cone roof

1. Stand a cylinder upright.
2. Place a cone on top.
3. Name both solids in the design.



Cone

Cylinder

One design with two solid pieces



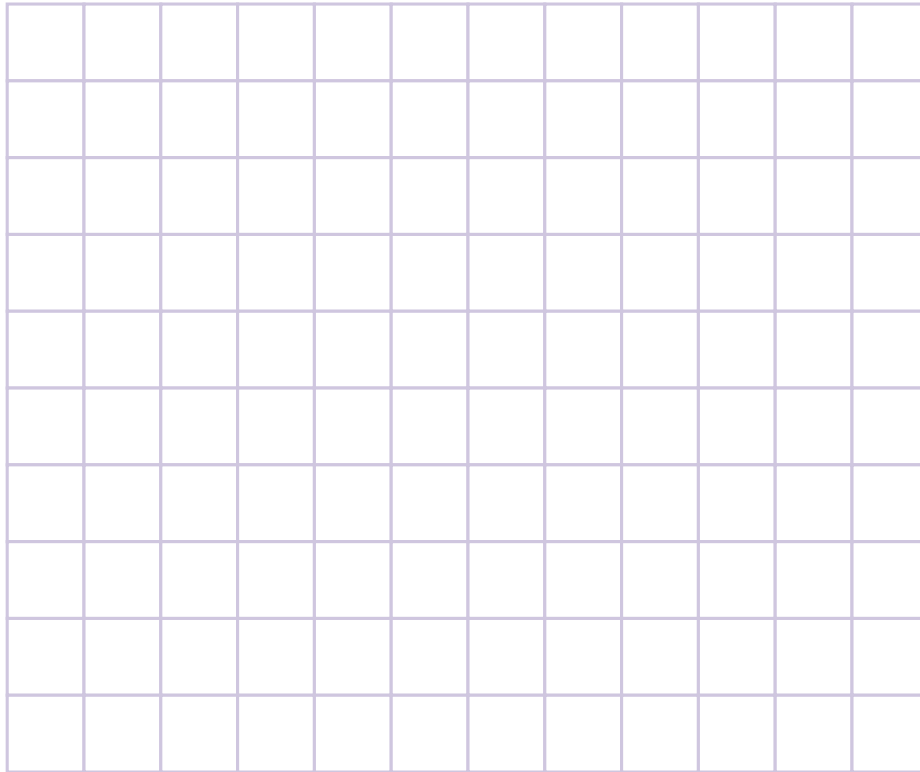
GRADE 1 / MATHEMATICAL WORK TOOL

BUILDING WITH SOLID SHAPES

Draw, build or tell.



Build with real cubes, rectangular prisms, cones or cylinders. Draw a view or tell an adult about every piece, including hidden pieces.





GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

◀ Mild

1. Use the same 2 cubes in a touching row. What changed?

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

◀ Mild

2. Add a cone roof to your 2-cube tower. Name all the solids.

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

Medium

3. Build a train with 2 cubes and one rectangular prism. Show each part.

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



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🔊 Medium

4. Build a tower with one cylinder and one cone. Compare it with your 2-cube tower.

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

🔊 Medium

5. Take one cube off your 2-cube tower. How many cube pieces remain?

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

🔥🔥🔥 Spicy

6. Digit calls your 2-cube tower one cube because its pieces touch. Do you agree?

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

🔥🔥🔥 Spicy

7. Use your 2 cubes in a new design. Tell what stays the same.

My answer or words: _____



GRADE 1 / PRACTICE

BUILDING WITH SOLID SHAPES

Draw, build or tell your thinking.



Use the worked-method reference when helpful. Draw, build or tell your thinking. An adult may read the directions.

Extra Spicy

8. Can your 2-cube tower be part of a bigger design? Build one and name its parts.

My answer or words: _____