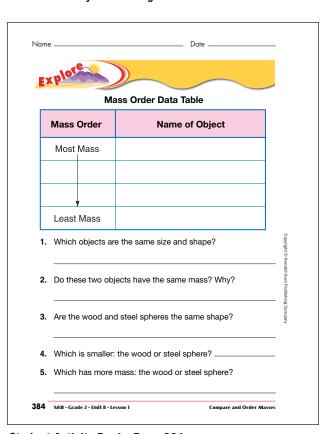


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*Answers and/or discussion are included in the lesson.

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Compare and Order Masses (SAB pp. 383-387)

Questions 1–12

- * Figure 1 in this lesson for a sample drawing showing the predicted mass order of the four objects.
- * Comparing Masses Data Table

Object in Pan 1	Object in Pan 2	Most Mass
steel	glass	steel
steel	wood	steel
steel	cube	steel
glass	wood	glass
glass	cube	glass
wood	cube	wood

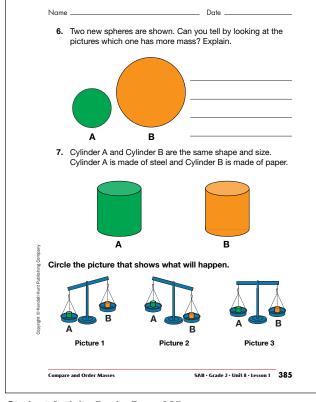
Mass Order Data Table

Mass Order	Name of Object	
Most Mass	steel sphere	
	glass sphere	
	wood sphere	
Least Mass	connecting cube	

- I. glass sphere and wood sphere
- **2.** No. They are made of different materials.
- **3.** Yes
- 4. steel sphere
- **5.** steel sphere

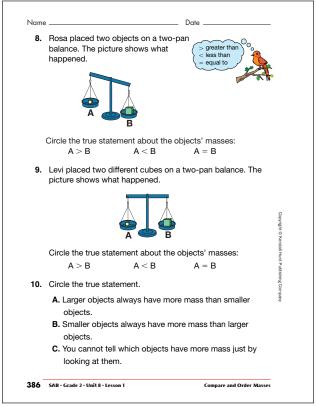
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- **6.** No. It is impossible to tell which sphere has more mass because we do not know the materials that make up the illustrated objects.
- **7.** Picture 1



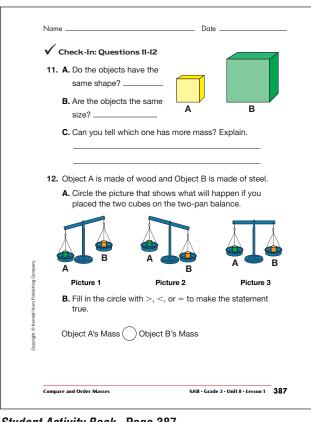
- _____
- **8.** A < B **9.** A = B
- **10.** You cannot tell which object has more mass just by looking at them.

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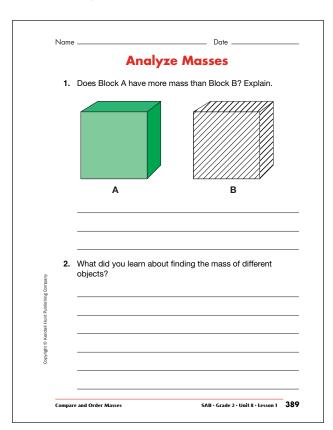
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Answer Key • Lesson 1: Compare and Order Masses



- II. A. yes
 - B. no
 - **C.** You cannot tell which object has more mass because we do not know what they are made of.
- **12. A.** Picture 2
 - **B.** Object A's Mass < Object B's Mass

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*Answers and/or discussion are included in the lesson.

Analyze Masses (SAB p. 389) Questions 1–2

- 1.* Possible response: You can't tell which block has more mass. You have to put them on a two-pan balance.
- **2.*** Answers will vary. Some possible responses:
 - Larger objects do not always have more mass.
 - Smaller objects do not always have less
 - Same size objects do not always have the same mass.
 - An object's mass depends on its material, size, and shape.
 - A two-pan balance can tell you which object has more mass if they are the same size and shape.