


Name \_\_\_\_\_ Date \_\_\_\_\_

### Compare and Order Masses



**Predict which objects have the most mass and which have the least. Line up the objects from most mass to least mass. Draw and label the order of your objects.**

Most Mass  $\longrightarrow$  Least Mass

Compare masses on the two-pan balance. Record your results in the table.

**Comparing Masses Data Table**


Object in Pan 1	Object in Pan 2	Most Mass

Copyright © Kendall Hunt Publishing Company

Compare and Order Masses      SAB • Grade 2 • Unit 8 • Lesson 1      383

**Student Activity Book - Page 383**

Name \_\_\_\_\_ Date \_\_\_\_\_



### Mass Order Data Table

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

1. Which objects are the same size and shape?  
\_\_\_\_\_
2. Do these two objects have the same mass? Why?  
\_\_\_\_\_
3. Are the wood and steel spheres the same shape?  
\_\_\_\_\_
4. Which is smaller: the wood or steel sphere? \_\_\_\_\_
5. Which has more mass: the wood or steel sphere?  
\_\_\_\_\_

Copyright © Kendall Hunt Publishing Company

384      SAB • Grade 2 • Unit 8 • Lesson 1      Compare and Order Masses

**Student Activity Book - Page 384**

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

**Student Activity Book**

**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


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

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

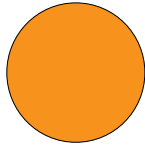
8.  $A < B$
9.  $A = B$
10. You cannot tell which object has more mass just by looking at them.

Name \_\_\_\_\_ Date \_\_\_\_\_

6. Two new spheres are shown. Can you tell by looking at the pictures which one has more mass? Explain.



**A**



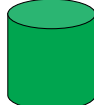
**B**

\_\_\_\_\_

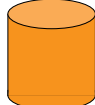
\_\_\_\_\_

\_\_\_\_\_

7. Cylinder A and Cylinder B are the same shape and size. Cylinder A is made of steel and Cylinder B is made of paper.




**A**




**B**

Circle the picture that shows what will happen.




**A**      **B**

Picture 1



**A**      **B**

Picture 2



**A**      **B**

Picture 3

Copyright © Kendall Hunt Publishing Company

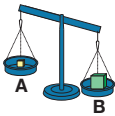
---

Compare and Order Masses SAB • Grade 2 • Unit 8 • Lesson 1 **385**

**Student Activity Book - Page 385**


Name \_\_\_\_\_ Date \_\_\_\_\_

8. Rosa placed two objects on a two-pan balance. The picture shows what happened.



**A**      **B**

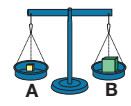
> greater than  
 < less than  
 = equal to



Circle the true statement about the objects' masses:

$A > B$         $A < B$         $A = B$

9. Levi placed two different cubes on a two-pan balance. The picture shows what happened.



**A**      **B**

Circle the true statement about the objects' masses:

$A > B$         $A < B$         $A = B$

10. Circle the true statement.

A. Larger objects always have more mass than smaller objects.

B. Smaller objects always have more mass than larger objects.

C. You cannot tell which objects have more mass just by looking at them.

Copyright © Kendall Hunt Publishing Company

---

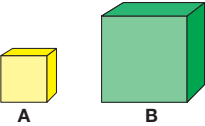
386 SAB • Grade 2 • Unit 8 • Lesson 1 Compare and Order Masses

**Student Activity Book - Page 386**

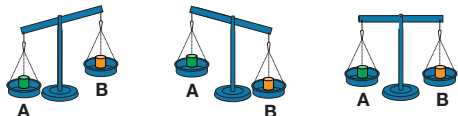
Name \_\_\_\_\_ Date \_\_\_\_\_

✓ **Check-In: Questions 11-12**

11. **A.** Do the objects have the same shape? \_\_\_\_\_  
**B.** Are the objects the same size? \_\_\_\_\_  
**C.** Can you tell which one has more mass? Explain.  
 \_\_\_\_\_



12. Object A is made of wood and Object B is made of steel.  
**A.** Circle the picture that shows what will happen if you placed the two cubes on the two-pan balance.



**B.** Fill in the circle with  $>$ ,  $<$ , or  $=$  to make the statement true.  
 Object A's Mass  Object B's Mass

Copyright © Kendall Hunt Publishing Company

**Compare and Order Masses** **SAB • Grade 2 • Unit 8 • Lesson 1** 387

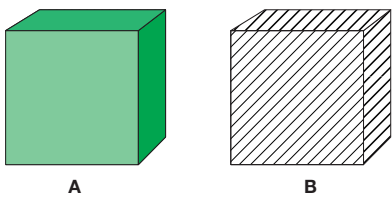
11. **A.** yes  
**B.** no  
**C.** You cannot tell which object has more mass because we do not know what they are made of.
12. **A.** Picture 2  
**B.** Object A's Mass  $<$  Object B's Mass

**Student Activity Book - Page 387**

Name \_\_\_\_\_ Date \_\_\_\_\_

**Analyze Masses**

1. Does Block A have more mass than Block B? Explain.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. What did you learn about finding the mass of different objects?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Copyright © Kendall Hunt Publishing Company

**Compare and Order Masses** **SAB • Grade 2 • Unit 8 • Lesson 1** 389

**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 mass.
  - 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.

Copyright © Kendall Hunt Publishing Company

**Student Activity Book - Page 389**

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

**Teacher Guide**


**Mass Hunt (TG)**

**Homework**

Answers will vary.

Name \_\_\_\_\_ Date \_\_\_\_\_

**Mass Hunt**

 **Homework**

Dear Family Member:

Your child is learning to find and compare the masses (weights) of objects. Help your child search for two small objects at home that have similar masses (weights), but different shapes or sizes. (Note: Objects that have the same weight will also have the same mass.)

Thank you.

**Draw the objects below. Tell how you predicted they have the same mass.**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Bring the two objects to school. Check your prediction using the two-pan balance.**

TG • Grade 2 • Unit 8 • Lesson 1 Homework Master

Copyright © Kendall Hunt Publishing Company

**Teacher Guide**