

Balance—

Introducing Symbols and Equality

Name: _____

You will use different combinations of shapes to balance a scale.


EXPLORE


1. Open **Balance--Introducing Symbols and Equality.gsp**.
Go to page “Balance.”


Work with a partner. Follow these steps:

- Drag the shapes described in each problem to one side of the scale.
- Choose and drag other shapes to the other side of the scale until it balances.
- Write two equations. One equation should only use the shapes. The other equation should only use their values.
- Press *Reset* to clear the shapes.




2. Find three ways to balance three triangles.




Shapes	
Values	




Shapes	
Values	

Shapes	
Values	



3. Find three ways to balance two circles and a triangle.



Shapes	 +  +  =
Values	



Shapes	 +  +  =
Values	

Shapes	 +  +  =
Values	




4. Find three ways to balance a star and a square.




Shapes	 +  =
Values	




Shapes	 +  =
Values	

Shapes	 +  =
Values	

5. Find three ways to balance three squares.

Shapes	 +  +  =
Values	

Shapes	 +  +  =
Values	

Shapes	 +  +  =
Values	

6. What strategies did you use to make the scale balance?
