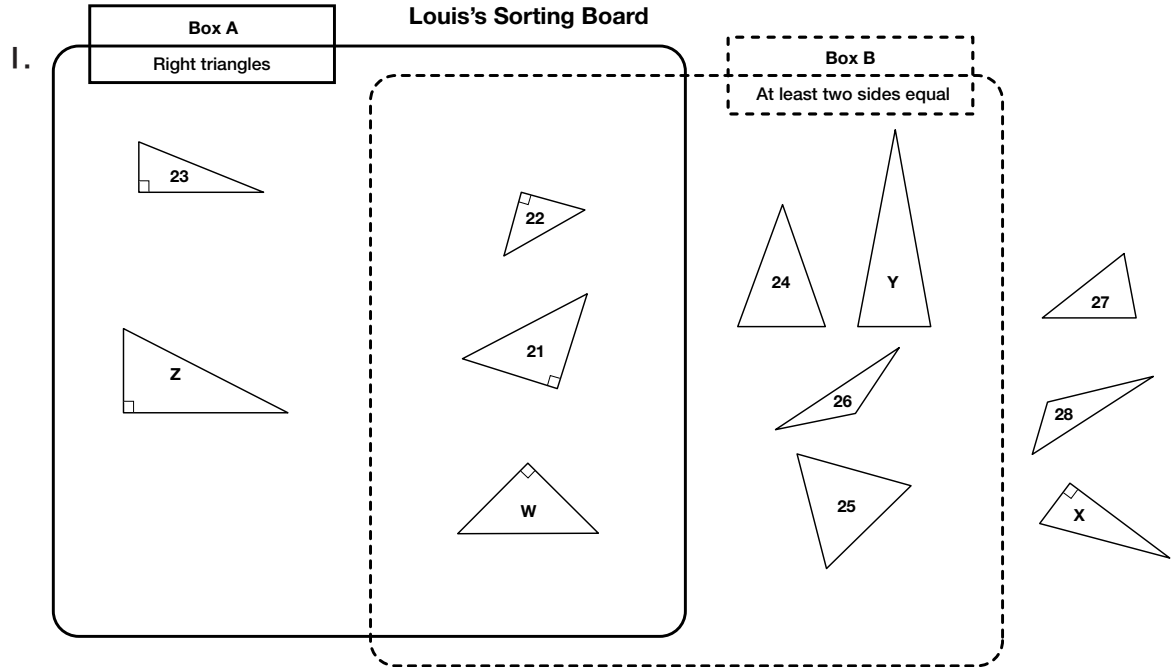


Teacher Guide

Louis Sorts Triangles (TG pp. 1–3)
 Questions 1–10



1.
 - A. All the shapes in Box B have at least 2 sides that are equal.
 - B. All the triangles in Box A have a right angle.
2. right triangles
3. Look for Shape Z in the figure shown in Question 1.
4. There is not one classification for the shapes in Box B. Some are isosceles triangles and some are equilateral triangles.
5. Look for Shape Y in the figure shown in Question 1.
6. Triangles 27 and 28 have no equal sides or a right angle.
7. Look for Shape X in the figure shown in Question 1.
8. isosceles right triangles
9. Look for Shape W in the figure shown in Question 1.
10. I do not agree with Julie. The triangle can be classified in Box B because it has at least two sides that are equal. It does not have a right angle so it cannot be classified with the shapes in Box A. The shape belongs in the section of Box B that does not overlap with Box A.

Answer Key • Lesson 7: Workshop: Shapes Classification

Name _____ Date _____

Louis Sorts Triangles

- Louis started to sort some triangles on his sorting board. Use the cards in the Triangle Sort Cards section and Louis's Sorting Board to continue to sort the triangles. Attach the cards to the sorting board.
 - What are the properties of all the shapes in Box B? Label the box on the sorting board.
 - What are the properties of all the shapes in Box A? Label the box on the sorting board.
- What is an appropriate classification for all the shapes in Box A?
- Sketch a new shape that can only be classified with the shapes in Box A. Label it Shape Z and attach it to the appropriate section of the sorting board.
- Is there one way to classify or name all the shapes in Box B?
- Sketch a new shape that can only be classified with the shapes in Box B. Label it Shape Y and attach it to the appropriate section of the sorting board.
- Which triangles cannot be classified in Box A or Box B? Why?

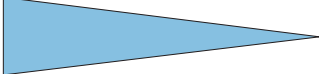
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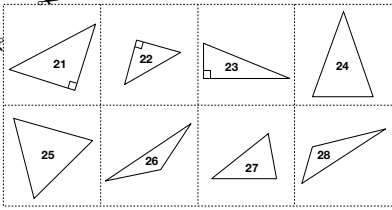
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Name _____ Date _____

- Sketch a new triangle that cannot be classified in Box A or Box B. Label it Shape X and attach it to the appropriate section of the sorting board.
- What is an appropriate name for all the shapes that can be classified in Box A and Box B?
- Sketch a new shape that can be classified with shapes in Box A and Box B. Label it Shape W and attach it to the appropriate section of the sorting board.
- Julie placed the shape below in the section that shows the overlap between Box A and Box B. Do you agree with Julie? Why or why not?



Triangle Sort Cards

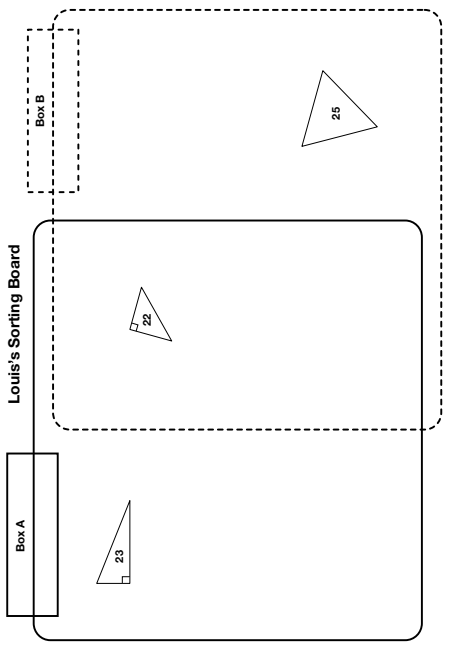


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Name _____ Date _____

Louis Sorts Triangles Feedback Box

Identify and describe the properties two-dimensional shapes	Expectation	Check In	Comments
Classify two-dimensional shapes in a hierarchy based on properties.	E4		
Justify conclusions using geometric properties.	E7		

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