

Comparison Table

Overall Concept

Types of triangles

Concept

isosceles

Concept

scalene

Characteristics

- 2 sides are the same length
- may be right, acute, or obtuse

Characteristics

- none of the sides are the same length
- may be right, acute, or obtuse

Extensions

Draw the following triangles & label them

- Right isosceles
- Acute isosceles
- Obtuse isosceles
- Right scalene
- Acute scalene
- Obtuse scalene

④

Like Characteristics

- may be right, acute, or obtuse

⑤

Like Categories

Types of triangle by angle

Unlike Characteristics

- the length of the sides

Unlike Categories

Types of triangle by length of sides

Summary

Isosceles and scalene triangles are alike with regard to the fact that they can be right, acute, or obtuse triangles. They are different in terms of the number of sides of equal length that they have.

Concept Comparison Device Checklist

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School: Math
Date 6/13/19

Observer _____
Subject: _____



Directions: Place a 2 if evidence and technically sound, a 1 if evidence, but not technically sound, and a 0 if no evidence next to each item.

Concepts*

p. 6 in Concept Comparison guidebook

- 2 represent distinct categories or classes of persons, things, events, or objects;
- 2 represent critical concepts required for foundational understandings in the course;
- 2 represents abstract or complex concepts;
- 2 are likely to be assessed in unit, course, or state assessments.

*NOTE: Some have found the Concept Comparison Table useful for comparing complex examples as well as concepts. In this case, the concept class to which the examples belong is the Overall Concept.

Overall Concept

p. 6 in Concept Comparison guidebook

- 2 represents the name of a larger group that contains the targeted concept in a word or short phrase;
- 2 provides a meaningful description of the overall category rather than a repetition of the concept name or a characteristic;
- 2 provides students with one component of a good definition, that is, "Democracies and autocracies (targeted concepts) are *forms of government* (overall concept) that ... "

Characteristics of Each Concept

pp. 6-7 & 10 in Concept Comparison guidebook

- 2 are distinguishing traits or attributes that are always present in each concept;
- 2 are listed in an order so that the characteristics of the other concept(s) are parallel;
- 2 pairs or groups of characteristics are clearly related, allowing efficient naming the categories of alike and different.

Like Characteristics

pp. 7-8 & 10 in Concept Comparison guidebook

- 2 are the qualities or attributes that all the concepts have in common;
- 2 include the most important likenesses that are always present in each concept.

Like Categories

pp. 8 & 10 in Concept Comparison guidebook

- 2 are the larger groups or classes to which the Like Characteristics belong;
- 2 summarize how the concepts are similar and how they belong to the larger category;
- 2 are named with a clear word or short phrase.

Unlike Characteristics

pp. 8 & 11 in Concept Comparison guidebook

- 2 are the important qualities or attributes that the concepts do not share;
- 2 include those that are different between or among concepts, but are always present in each individual concept.

Unlike Categories

pp. 8 & 11 in Concept Comparison guidebook

- 2 are the larger groups or classes to which the Unlike Characteristics belong;
- 2 summarize how the concepts are different, but still belong to the same category;
- 2 are named with a clear word or short phrase.

