

Determine the unknown measure.

25. An artist crafts a scale model of a sculpture that he is planning to carve. The scale of the model is 12 : 1. If the height of the model is 15 inches, what will be the height of the sculpture?
26. A graphic designer creates a scale model of a new action figure. The scale of the model is 5 : 2. If the height of the model is 4 inches, what will be the height of the action figure?
27. A civil engineer built a scale model of a bridge that needs repair. The scale of the model is 25 : 1. If the length of the bridge is 150 feet, what is the length of the model?
28. An architect must create a scale model of a skyscraper that she is proposing. The scale of the model is 120 : 1. If the height of the skyscraper will be 420 feet, what should be the height of the model?

Skills Practice

Name _____ Date _____

Using an Art Projector Proving Triangles Similar: AA, SSS, and SAS

Vocabulary

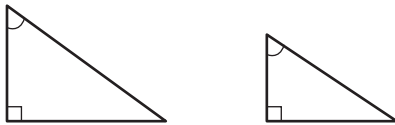
Describe the similarities and differences between the terms.

1. paragraph proof and two-column proof

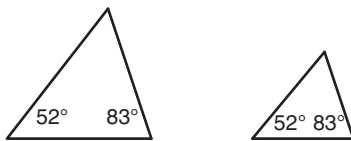
Problem Set

Explain in your own words how you know the figures are similar.

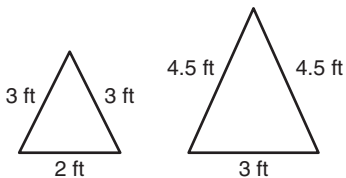
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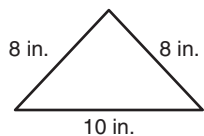
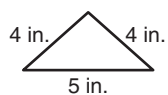
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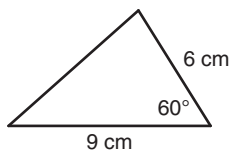
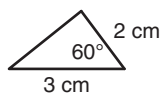
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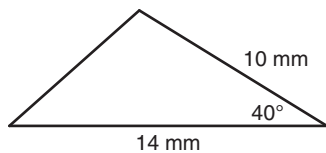
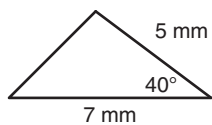
5.



6.



7.



Determine what additional information you would need to prove that the triangles are similar using the given postulate or theorem.

8. What information would you need to use the Angle-Angle Similarity Theorem to prove that the triangles are similar?

