

Geometry  
Chapter 7 Test

Name \_\_\_\_\_

Solve each proportion for  $x$ . If necessary, leave answers as reduced improper fractions (no decimals).

1.  $\frac{10}{x} = \frac{5}{14}$

2.  $\frac{12}{x} = \frac{4}{7}$

3.  $\frac{x}{x+1} = \frac{2}{5}$

Are the triangles similar? If yes, explain by simply stating the theorem or postulate that proves the triangles to be similar. If no, explain why the triangles are not similar.



The figures in each pair are similar. Find the value of each variable.

7.  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_  $z =$  \_\_\_\_\_



8.  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_



9. These polygons are similar. Finish the similarity statement.



$\Delta BAC \sim$  \_\_\_\_\_

10. A person 2 m tall casts a shadow 7 m long. At the same time, a building casts a shadow 42 m long. How tall is the building?

11. A video screen is 16 in. wide by 12 in. tall. What is the largest complete video image possible for a picture that is originally 3 in. wide by 5 in. tall? If necessary, find lengths to one decimal place.

# Geometry Chapter 7 Resource Answers

**Shasha Hu**



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