

Geometry District Assessment #3B Review

Name _____

(Links to State Standard GE 4.0) (Use after Chapter 4, section 3)

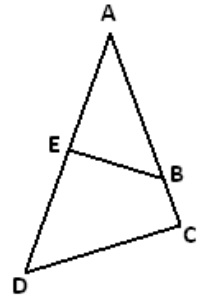
Date _____ Period _____

GE 4.0* Students prove basic theorems involving [congruence] and similarity.

6. Which two must be similar?
- Two rhombi
 - Two isosceles trapezoids
 - Two rectangles
 - Two equilateral triangles

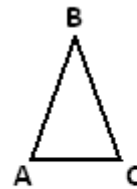
7. Which additional information would be sufficient to prove that $\triangle ABE$ is similar to $\triangle ADC$?

- $\overline{BE} \cong \overline{DE}$
- B is the midpoint of \overline{AC}
- $\angle ACD$ and $\angle AEB$ are right angles
- $\angle ADC \cong \angle ACD$



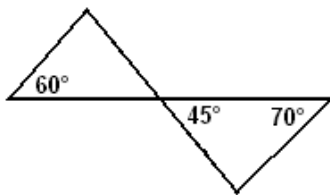
8. Given that $\triangle ABC \sim \triangle DEF$, which of the following statements must be true?

- $\frac{AB}{AC} \cong \frac{DE}{DF}$
- $\frac{AC}{AC} \cong \frac{EF}{DF}$
- $\angle A \cong \angle C$
- $\angle B$ and $\angle E$ are both acute angles.

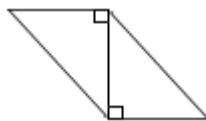


9. Which diagram represents a pair of triangles that must be similar?

a.



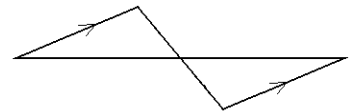
b.



c.



d.



10. $\triangle RHT$ is a right triangle with right angle $\angle RHT$ and $\triangle WAY$ is a right triangle with right angle $\angle WAY$. Which of the following is sufficient to prove that $\triangle RHT$ is similar to $\triangle WAY$?

- $\angle W \cong \angle Y$
- $\overline{RT} \cong \overline{WY}$
- $\frac{RT}{WY} \cong \frac{HT}{AY}$
- $\frac{RT}{WY} \cong \frac{AY}{HT}$