

Quiz 6.1 Similarity

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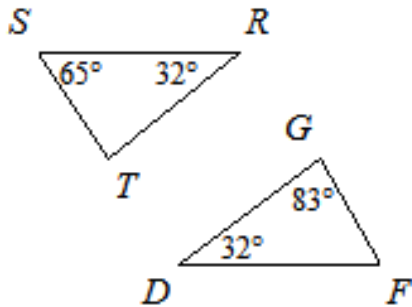
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* Required

1. Choose the correct answer. *

3 points

Given the diagrams below, part of the proof that the triangles are similar to each other requires to find one pair of equal angles.



Which of the following is correct combination of equal angles and reason?

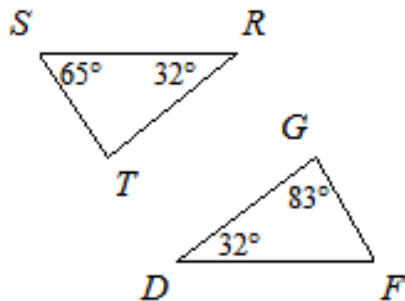
- a. $\angle R \cong \angle D$ AA TST
- b. $\angle R \cong \angle D$ Given that both are 32°
- c. $\angle G \cong \angle T$ AA TST
- d. $\angle S \cong \angle F$ Both angles are 65°

- ☐ a
- ☐ b
- ☐ c
- ☐ d

2. Choose the correct answer. *

3 points

Given the diagrams below, another part of the proof that the triangles are similar to each other requires to find another pair of equal angles.



Which one of the following is a correct step in finding a second pair of equal angles?

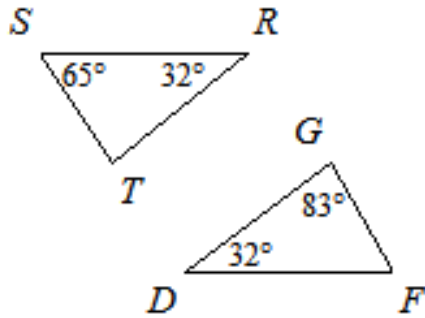
- a. TAST $\angle S + \angle R + \angle F = 180$
- b. AA TST $\angle T = \angle F$
- c. TAST $\angle D + \angle G + \angle T = 180$
- d. TAST $\angle G + \angle F + \angle D = 180$

- ☐ a
- ☐ b
- ☐ c
- ☐ d

3. Choose the correct answer. *

3 points

Consider the diagrams below.



Assuming that it has been shown that the two triangles have two pairs of equal angles, which of the following is correct?

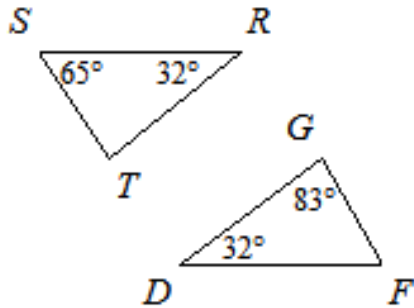
- a. $\triangle RTS \sim \triangle DGF$ ASA TCT
- b. $\triangle FGD \sim \triangle STR$ SAS TCT
- c. $\triangle SRT \sim \triangle FDG$ AA TST
- d. $\triangle FDG \sim \triangle RTS$ AA TST

- ☐ a
- ☐ b
- ☐ c
- ☐ d

4. Choose the correct answer. *

3 points

Suppose, in addition to the information given in the diagrams, it is also given that $\overline{SR} \cong \overline{FD}$ and $\angle F = 65^\circ$.



Which of the following is a correct combination of a proof of triangle congruency and a rigid transformation that would map one triangle onto the other?

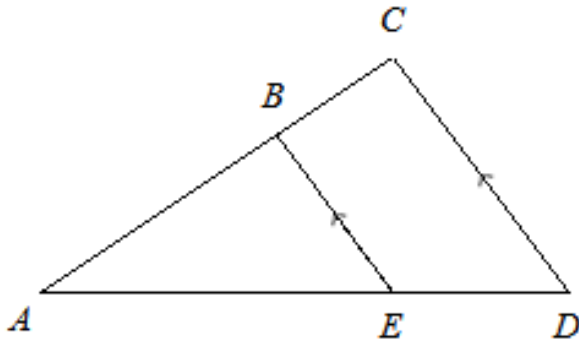
- a. SAS TCT Translation
- b. SSS TCT Dilation
- c. AA TST Reflection
- d. ASA TCT Rotation

- ☐ a
- ☐ b
- ☐ c
- ☐ d

5. Choose the correct answer. *

3 points

Given the diagrams below in which $\overline{BE} \parallel \overline{CD}$, part of the proof that the triangles are similar to each other requires to find one pair of equal angles.



Which of the following is correct combination of equal angles and reason?

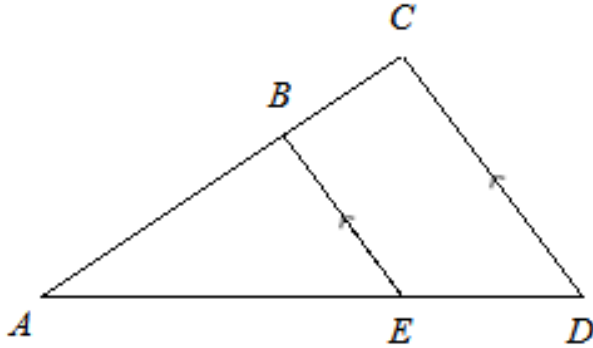
- a. $\angle BAE \cong \angle BAE$ AIAT
- b. $\angle EAB \cong \angle ABE$ SSLAT
- c. $\angle ABE \cong \angle ACD$ CAP
- d. $\angle AEB \cong \angle ADC$ RPE

- ☐ a
- ☐ b
- ☐ c
- ☐ d

6. Choose the correct answer. *

3 points

Given the diagrams below in which $\overline{BE} \parallel \overline{CD}$, part of the proof that the triangles are similar to each other requires to find two pairs of equal angles.



Suppose it has already been shown somehow that $\angle CDA \cong \angle BEA$. Then, which of the following is a valid proof of a second pair of equal angles?

- a. $\angle CAD \cong \angle BAE$ RPE
- b. $\angle ABE \cong \angle AEB$ CAP
- c. $\angle AEB \cong \angle ACD$ CAP
- d. $\angle DCA \cong \angle ABA$ RPE

☐ a

☐ b

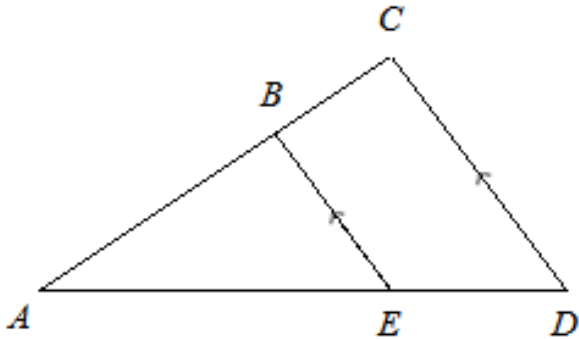
☐ c

☐ d

7. Choose the correct answer. *

3 points

Assume that for the two triangles below, it has already been demonstrated that they have three pairs of equal angles.



Which of the following is a correct combination of similarity statement and reason?

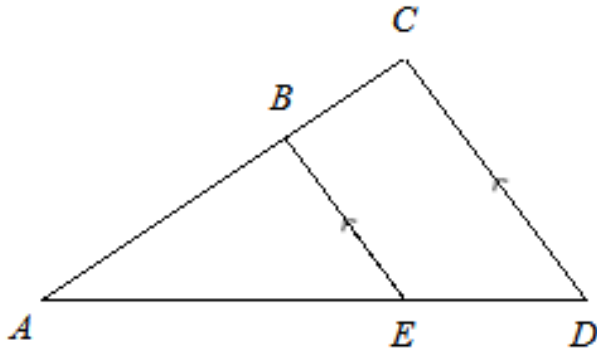
- a. $\triangle BEA \sim \triangle CDA$ ASA TST
- b. $\triangle ABE \sim \triangle ACD$ AA TST
- c. $\triangle ABE \sim \triangle ADC$ AA TST
- d. $\triangle AEB \sim \triangle ADC$ AAA TST

- ☐ a
- ☐ b
- ☐ c
- ☐ d

8. Choose the correct answer. *

3 points

Given: The diagram of two overlapping similar triangles in which $\overline{BE} \parallel \overline{CD}$.



Which of the following is a correct description of a transformation that would map the small triangle onto the large triangle?

- a. Reflection, enlargement
- b. Rotation, reduction
- c. Translation, reduction
- d. Dilation, enlargement

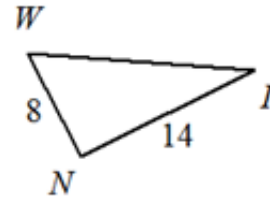
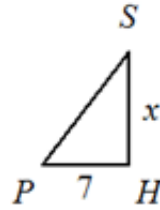
- ☐ a
- ☐ b
- ☐ c
- ☐ d

#9. Choose the correct answer *

3 points

Given: Diagram of two triangles in which $\angle S \cong \angle I$ and $\angle H \cong \angle N$.

Which theorem can you use to prove that the two triangles are similar to each other?



a. ASA b. SS c. AA d. SSS

☐ a.

☐ b.

☐ c.

☐ d.

#10. Choose the correct answer of Who is incorrect. *

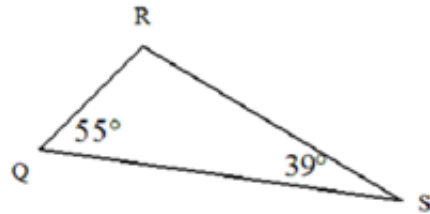
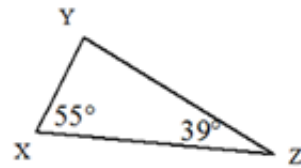
3 points

Chris says that the triangles below must be similar to each other because they have two pairs of corresponding equal angles.

Robin responds to Chris by saying that the triangles are similar to each other only if all three pairs of corresponding angles are equal to each other.

Who is incorrect?

- a. Chris c. both
b. Robin d. Neither



- ☐ a.
☐ b.
☐ c.
☐ d.

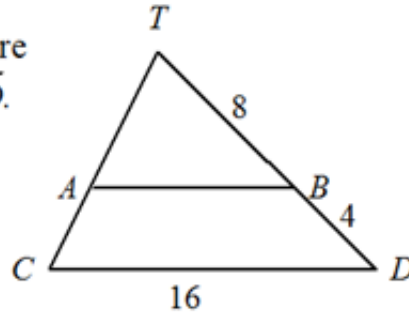
#11. Choose the correct answer. *

3 points

In the diagram below, it is given that T, A, C are collinear and that B is on $\overline{TD}$ and that $\overline{AB} \parallel \overline{CD}$.

Which theorem proves $\triangle TAB \sim \triangle TCD$?

- a. ASA c. AA
b. SS d. SSS



- ☐ a.
☐ b.
☐ c.
☐ d.

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