

Additional Resources

Assessment Book

- Chapter Test, Levels A, B, C
- Standardized Chapter Test
- SAT/ACT Chapter Test
- Alternative Assessment

Test Generator

Chapter Test

Easily-readable reduced copies (with answers) of Chapter Test B, the Standardized Chapter Test, and the Alternative Assessment from the Assessment Book can be found on pp. 214G–214H.

11. Statements (Reasons)

1. $\triangle ABC$ is isosceles with base \overline{AC} .
 \overline{BD} bisects $\angle B$. (Given)
2. $\overline{AB} \cong \overline{BC}$ (Definition of isosceles triangle)
3. $\angle ABD \cong \angle CBD$ (Definition of angle bisector)
4. $\overline{BD} \cong \overline{BD}$ (Reflexive Property of Segment Congruence)
5. $\triangle ABD \cong \triangle CBD$ (SAS)

Classify the triangle by its sides and by its angles.



equilateral, acute
(or equiangular)



scalene, right



isosceles, obtuse

In Exercises 4–6, find the value of x .



70



20



75

7. In the diagram, $\triangle EFG \cong \triangle HGF$.
Find the values of x and y . 5, 15

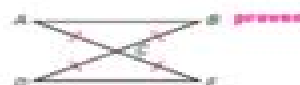


In Exercises 8–10, decide whether the triangles can be proven congruent by the given postulate.

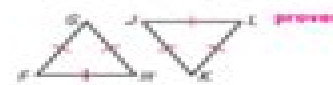
8. $\triangle ABC \cong \triangle EDC$ by SAS

9. $\triangle FGH \cong \triangle JKL$ by ASA

10. $\triangle MNP \cong \triangle PQM$ by SSS



proven



proven



proven

11. Write a proof. See margin.

GIVEN $\triangle ABC$ is isosceles with base \overline{AC} . \overline{BD} bisects $\angle B$.
PROVE $\triangle ABD \cong \triangle CBD$



12. What is the third congruence needed to prove that $\triangle PQR \cong \triangle STU$ using the indicated theorem?

- a. HL $\overline{QP} \cong \overline{TS}$ or b. AAS $\angle P \cong \angle S$ or $\angle R \cong \angle U$
 $\overline{QR} \cong \overline{TU}$



Decide whether the transformation is a translation, reflection, or rotation.



reflection



reflection



translation

Performance Tasks Chapter 4 Geometry Answer

Daniel F McAuley



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15 the three nodes on the lever diagram represent the ring gear carrier

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