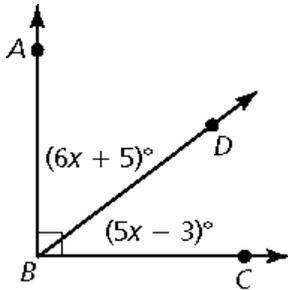


Identify the numbered statement or reason in the two-column proof.

Given $\angle ABC$ is a right angle.
Prove $x = 8$



STATEMENTS	REASONS
1. $\angle ABC$ is a right angle.	1. Given
2. $m\angle ABC = 90^\circ$	2.
3.	3. Angle Addition Postulate
4. $(6x + 5)^\circ + (5x - 3)^\circ = 90^\circ$	4. Substitution Property of Equality
5. $11x + 2 = 90$	5. Simplify.
6.	6. Subtraction Property of Equality
7. $x = 8$	7.

- _____ 8. What is Reason 2?
- a. Given
 - b. Definition of a right angle
 - c. Definition of complementary angles
 - d. Angle Addition Postulate
- _____ 9. What is Statement 3?
- a. $\overrightarrow{BA} \perp \overrightarrow{BC}$
 - b. $m\angle ABD + m\angle CBD = 90^\circ$
 - c. $m\angle ABD = m\angle CBD$
 - d. $2(m\angle ABD) = 90^\circ$
- _____ 10. What is Statement 6?
- a. $11x - 2 = 90$
 - b. $9x = 90$
 - c. $11x = 92$
 - d. $11x = 88$
- _____ 11. What is Reason 7?
- a. Division Property of Equality
 - b. Simplify.
 - c. Addition Property of Equality
 - d. Symmetric Property of Equality
- _____ 12. Let p be “an animal is a dog” and let q be “an animal is a golden retriever.” Write the converse. Then decide whether it is *true* or *false*.
- a. If an animal is a golden retriever, then it is a dog; true
 - b. If an animal is not a golden retriever, then it is not a dog; false
 - c. If an animal is a dog, then it is a golden retriever; false
 - d. If an animal is not a dog, then it is not a golden retriever; true
- _____ 13. Let p be “an animal is a dog” and let q be “an animal is a golden retriever.” Write the inverse. Then decide whether it is *true* or *false*.
- a. If an animal is a golden retriever, then it is a dog; true
 - b. If an animal is not a golden retriever, then it is not a dog; false
 - c. If an animal is a dog, then it is a golden retriever; false
 - d. If an animal is not a dog, then it is not a golden retriever; true

Name: _____ Date: _____ Period: _____ # _____

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