

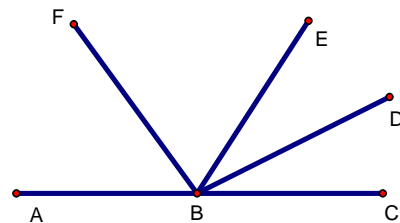
Geometry Chapter 1 Practice Test 1

Name _____

Put all answers in the blank to the left of the question.

- _____ 1. What is the distance from (1, 2) to (3, 6)?
- _____ 2. If $\angle 1$ and $\angle 2$ are vertical angles with $\angle 1 = 2n + 60$ and $\angle 2 = 4n + 20$, what is the measurement of $\angle 2$?
- _____ 3. Which of these statements is false?
A. $\overline{AB} = \overline{BA}$ B. $\overline{AB} = \overline{BA}$ C. $\overline{AB} = \overline{BA}$
- _____ 4. What is the midpoint between (2, 4) and (10, 18)?
- _____ 5. \overline{BX} bisects $\angle ABC$. If $\angle ABX = 30^\circ$, what is $\angle ABC$?
- _____ 6. On \overline{AB} , F is the midpoint. If A = (2, 4) and F = (5, 10), where is B?
- _____ 7. If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1 = 2n + 6$ and $\angle 2 = 3n + 4$, what is the measurement of $\angle 2$?
- _____ 8. On \overline{AB} , C is the midpoint. If A = (9, 1) and C = (7, 6), where is B?
- _____ 9. On \overline{TD} , M is the midpoint. If T = (2, 4) and D = (6, 8), where is M?
- _____ 10. What is the distance from (-1, 2) to (3, -1)?
- _____ 11. What is the midpoint of a line that has endpoints at (2, 3) and (4, 7)?
- _____ 12. If $\angle 1$ and $\angle 2$ are supplementary angles with $\angle 1 = 70^\circ$, what is the measurement of $\angle 2$?
- _____ 13. What is the midpoint of a line that has endpoints at (-2, -3) and (4, 7)?
- _____ 14. If X is the midpoint of \overline{CN} and $CX = 6n + 2$, what is CN?
- _____ 15. If X is the midpoint of \overline{AB} and $AB = 8n + 6$, what is XB?
- _____ 16. If you walk 5 miles due East and then walk 12 miles due North, how far from the starting point are you?
- _____ 17. Think about a square whose side length is 16 cm.
What is the length of the diagonal? (Draw a picture to help you.)
- _____ 18. What is the distance from (-3, 4) to (0, 14)?
- _____ 19. If D is between A and B with $AB = 4n + 10$ and $AD = n - 2$, what is BD?
- _____ 20. If the sides of a triangle are 61, 11, and 60, is it a right triangle?

Consider the picture. \overline{BD} bisects $\angle EBC$, \overline{BE} bisects $\angle FBC$, and $\angle ABC$ is a straight line.



21. If $\angle EBC = 60^\circ$, what is $\angle EBD$?

22. If $\angle EBD = 16^\circ$, what is $\angle EBC$?

23. If $\angle FBE = 80^\circ$, what is $\angle EBD$?

24. If $\angle FBE = 60^\circ$, what is $\angle DBC$?

25. If $\angle EBC = 6n - 8$, what is $\angle EBD$?

26. If $\angle EBD = 4n + 16$ and $\angle DBC = 6n + 10$, what is the numerical value of $\angle EBC$?

27. If $\angle EBC = 2n + 6$ and $\angle FBE = 4n - 54$, what is the numerical value of $\angle DBC$.

28. Point A is at (1, 10) and B is at (4, 1). If B is the midpoint of \overline{AC} , what are the coordinates of C?

29. If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1 = 80^\circ$, what is the measurement of $\angle 2$?

30. If A = (7, 15) and B = (5, 10), what is AB?

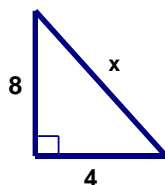
31. Is a triangle with side lengths of 11, 12, and 15 a right triangle?

32. If A = (2, -1) and B = (5, 3), what is AB?

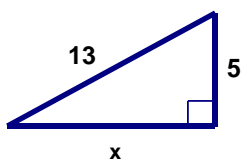
33. If $\angle 1$ and $\angle 2$ are a linear pair with $\angle 1 = n + 40$ and $\angle 2 = 9n + 20$, what is the measurement of $\angle 2$?

Find the value of the missing side in each right triangle below. Round answers to nearest tenth.

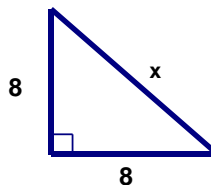
34. $x =$ _____



35. $x =$ _____



36. $x =$ _____



37. $x =$ _____

