

Honors Geometry Chapter 1 Practice Test 2

Name: _____

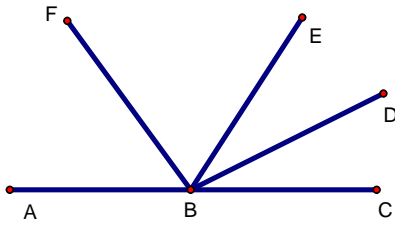
Time Start: _____ Finish: _____

Total Time = _____

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

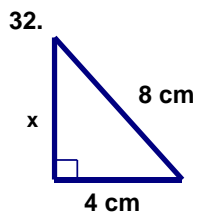
- _____ 1. What is the distance from (3, 5) to (7, 6)?
- _____ 2. If D is between A and B with $AB = 4n$ and $BD = 3$, what is AD?
- _____ 3. What is the midpoint of a line that has endpoints at (8, 7) and (1, 6)?
- _____ 4. If C is between X and Y with $YC = 3$ and $XY = 12$, what is XC?
- _____ 5. \overline{BX} bisects $\angle ABC$. If $\angle ABC = 40^\circ$, what is $\angle ABX$?
- _____ 6. Point A is at (3, 1) and B is at (4, -1). If B is the midpoint of \overline{AC} , what are the coordinates of C?
- _____ 7. If $\angle A$ and $\angle B$ are complementary angles with $\angle A = n + 6$ and $\angle B = 8n - 6$, what is the measurement of $\angle A$?
- _____ 8. If D is between A and B with $AB = 3n + 8$ and $AD = 2n - 2$, what is BD?
- _____ 9. If B is between A and C with $AC = 6n$ and $BC = n + 1$, what is AB?
- _____ 10. What is the distance from (-4, -2) to (-3, -1)?
- _____ 11. If you walk 8 miles due West and then walk 14 miles due South, how far from the starting point are you?
- _____ 12. If $\angle A$ and $\angle B$ are supplementary angles with $\angle A = 1^\circ$, what is the measurement of $\angle B$?
- _____ 13. What is the midpoint of a line that has endpoints at (-5, -1) and (-7, 7)?
- _____ 14. If X is the midpoint of \overline{CN} and $CX = 8n + 20$, what is CN?
- _____ 15. If X is the midpoint of \overline{AB} and $AB = 4n + 12$, what is XB?
- _____ 16. What is the diagonal length of a rectangle that has a side length of 12 cm and a width of 4 cm?
- _____ 17. If A = (3, 5) and B = (5, 15), what is AB?
- _____ 18. \overline{BX} bisects $\angle ABC$. If $\angle ABC = 6n + 2$, what is $\angle ABX$?
- _____ 19. If B is the midpoint of \overline{AC} with $AB = 5n - 2$ and $BC = 3n + 8$, what is n?
- _____ 20. If a right triangle has legs of 20 cm and 21 cm, what is the hypotenuse?

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

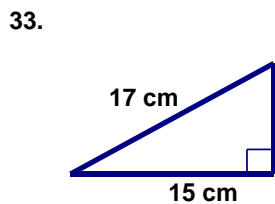


- _____ 21. If $\angle DBC = 21^\circ$, what is the measurement of $\angle FBC$?
- _____ 22. If $\angle EBD = 4n + 16$ and $\angle DBC = 8n + 12$, what is the numerical value of $\angle EBC$?
- _____ 23. If $\angle EBC = 10n + 4$, what is $\angle EBD$?
- _____ 24. If $\angle EBC = 2n + 6$ and $\angle FBE = 3n - 24$, what is the numerical value of $\angle DBC$.
- _____ 25. If $\angle EBC = 6n - 8$, what is $\angle EBD$?
- _____ 26. If $\angle A$ and $\angle B$ are vertical angles with $\angle A = 5n - 3$ and $\angle B = 3n + 13$, what is $\angle A$?
- _____ 27. If C is between X and Y with $CX = 6n - 4$ and $CY = 2n + 1$, what is XY?
- _____ 28. If $\angle A$ and $\angle B$ are a linear pair with $\angle A = n + 40$ and $\angle B = 9n + 20$, what is the measurement of $\angle B$?
- _____ 29. If $\angle A$ and $\angle B$ are supplementary with $\angle A = n + 40$ and $\angle B = 9n + 20$, what is the measurement of $\angle B$?
- _____ 30. If three points are all on the same line, the points are said to be what?
- _____ 31. Is a triangle with sides of 88, 55, and 68 a right triangle?

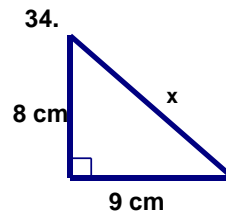
Find the value of the missing side in each right triangle below. Round answers to nearest tenth.



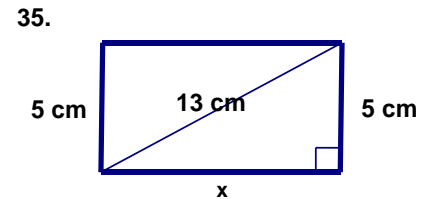
$x =$ _____



$x =$ _____



$x =$ _____



$x =$ _____

