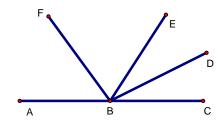
Geometry Chapter 1 Practice Test 2 (2019)

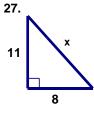
Name		
Put all answers	in the blar	nk to the left of the question. Round all answers to the tenths spot.
	1.	What is the distance from $(5, 2)$ to $(1, 9)$?
	2.	If $\angle 1$ and $\angle 2$ are vertical angles with $\angle 1 = 8n + 7$ and $\angle 2 = 6n + 19$, what is the measurement of $\angle 2$?
	3.	If A is the midpoint of \overline{CT} with C = (3, 4) and T = (7, 14), what is A?
	4.	What is the distance between (2, 4) and (10, 18)?
	5.	\overrightarrow{BX} bisects $\angle ABC$. If $\angle ABC = 50^{\circ}$, what is $\angle ABX$?
	6.	On \overline{AB} , F is the midpoint. If A = (3, 4) and F = (5, 1), where is B?
	7.	If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1 = 2n + 11$ and $\angle 2 = 3n + 9$, what is the measurement of $\angle 2$?
	8.	On \overline{AB} , C is the midpoint. If A = (5, 1) and C = (6, 6), where is B?
	9.	On \overline{TD} , M is the midpoint. If T = (12, 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 (12, 30) and (4, 6)?
	12.	If $\angle 1$ and $\angle 2$ are supplementary angles with $\angle 1 = 10^{\circ}$, what is the measurement of $\angle 2$?
	13.	What is the midpoint of a line that has endpoints at (-2, 8) and (-4, -6)?
	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 = 6n + 14, what is XB?
	16.	If you walk 9 miles due East and then walk 3 miles due North, how far from the starting point are you?
	17.	Think about a square whose side length is 12 cm. What is the length of the diagonal? (Draw a picture to help you.)
	18.	What is the distance from (-3, 4) to (4, 8)?
	19.	If three points all lie on a plane, the points are said to be what?
	20.	If the sides of a triangle are 6, 9, and 12, is it a right triangle?

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

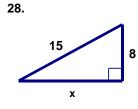


- _____ 21. If $\angle EBC = 40^{\circ}$, what is $\angle EBD$?
- 22. If $\angle EBD = 12^{\circ}$, what is $\angle EBC$?
- _____ 23. If $\angle FBE = 60^{\circ}$, what is $\angle EBD$?
- _____ 24. If $\angle FBE = 40^\circ$, what is $\angle DBC$?
- Point A is at (2, 1) and B is at (4, -1). If B is the midpoint of \overline{AC} , what are the coordinates of C?
- 26. If $\angle 1$ and $\angle 2$ are complementary angles with $\angle 1 = 50^{\circ}$, what is the measurement of $\angle 2$?
- 27. If A = (2, 17) and B = (8, 10), what is AB?
- _____ 28. Is a triangle with side lengths of 65, 33, and 56 a right triangle?
- _____ 29. If A = (2, -8) and B = (9, 8), what is AB?
- _____ 30. If $\angle 1$ and $\angle 2$ are a linear pair with $\angle 1 = n + 80$ and $\angle 2 = 9n 20$, what is the measurement of $\angle 2$?

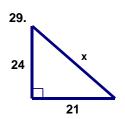
Find the value of the missing side in each right triangle below. Round answers to nearest tenth.



x = ____



x = ____



x = ____



x = _____

14

14

21