

Geometry
Chapter 5 Test Review

1. Given: \overline{EF} is the perpendicular bisector of \overline{JK} . Which statement is true?



- [A] $\angle IEK$ is a right angle.
- [B] $FK = EK$
- [C] F is the midpoint of \overline{JK}
- [D] $FI = FK$

2. If \overline{KF} is the perpendicular bisector of \overline{GH} , then $\angle KGF \cong$ _____



3. The medians of a triangle are concurrent. Their common point is the _____

4. A point is equidistant from points $A(0, 0)$, $B(4, 0)$, and $C(4, 4)$. Its coordinates are _____



5. Given: \overline{AE} bisects $\angle DAB$. Find ED if $CB = 6$ and $CE = 8$. (not drawn to scale)



6. Refer to figure below.



Given: $\overline{AF} \cong \overline{FC}$, $\angle ABE \cong \angle EBC$
An altitude of $\triangle ABC$ is _____

7. For the triangle shown, $VS = 5$ and $VQ = 6$. Then $PQ =$ _____



8. Using the Triangle Inequality Theorem, solve for all possible values of x .



9. Two sides of a triangle have sides 4 and 15. The length of the third side must be greater than _____ and less than _____

10. Which of these lengths could be the sides of a triangle?

- [A] 7 cm, 19 cm, 12 cm
- [B] 19 cm, 7 cm, 13 cm
- [C] 12 cm, 22 cm, 8 cm
- [D] 22 cm, 12 cm, 9 cm

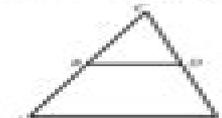
11. Refer to the figure below.

Given: $\overline{AF} \cong \overline{FC}$, $\angle ABE \cong \angle EBC$
A median of $\triangle ABC$ is _____



12. Solve for x given $BD = \frac{5}{2}x + 5$ and $AE = 9x + 4$.

Assume B is the midpoint of \overline{AC} and D is the midpoint of \overline{CE} .



13. Find the area of the rectangle if $AC = 13$ and $BD = 25$.



Chapter 5 Geometry

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Chapter 5 Geometry:

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