

USS1/USS2: I can prove and identify theorems about perpendicular bisectors and angle bisectors.

1. \overline{BX} is the perpendicular bisector of \overline{AC} . What is the value of n ?

- A. 0
- B. $\frac{1}{4}$
- C. 4
- D. Not here



2. What information is sufficient to allow you to conclude that Y is on the bisector of $\angle E$?

- A. $m\angle 1 = 90^\circ$
- B. $m\angle 2 = 90^\circ$
- C. $m\angle 1 = 90^\circ$ and $m\angle 2 = 90^\circ$
- D. $m\angle FYE = m\angle DYE = 90^\circ$



3. Point Z is the circumcenter of $\triangle TUV$. What is the value of UV ?

- F. 33.75
- G. 45
- H. 50
- J. Not here



4. X is the in-center of $\triangle NPQ$. What MUST be true?

- A. $KN = KP$
- B. $XN = QX$
- C. $XM = KX$
- D. $NM = QL$



USS3: I can prove and apply properties of perpendicular bisectors and angle bisectors.

5. \overline{AC} is the perpendicular bisector of \overline{BD} . What is the value of x ?

- A. 2.4
- B. 4
- C. $6\frac{2}{3}$
- D. Not here



6. What is $m\angle XYZ$?

- A. 70°
- B. 125°
- C. 145°
- D. Not here



7. What is the distance from X to \overline{ON} ?

- A. 8
- B. 12.8
- C. 11
- D. 12



8. \overline{JK} has endpoints $J(1, 3)$ and $K(3, 5)$. The intersection of \overline{JK} and its perpendicular bisector is $(2, 4)$. Which is the equation for the perpendicular bisector of \overline{JK} ?

- A. $y - 4 = 1(x - 2)$
- B. $y - 4 = -1(x - 2)$
- C. $y - 5 = -1(x - 3)$
- D. $y - 5 = 1(x - 3)$

Chapter 5 Test Geometry Snowpeakore

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