

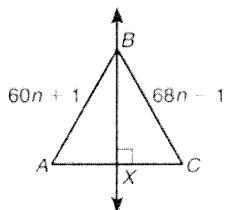
CHAPTER
5

Chapter Test

Form B

Circle the best answer.

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

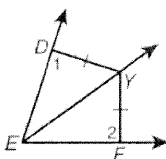


- A 0
B $\frac{1}{4}$
C 4
D Not here

2. Which point is on the perpendicular bisector of the segment with endpoints $(-2, 5)$ and $(-2, -3)$?

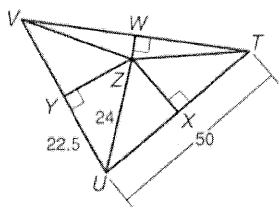
- F $(-2, 8)$
G $(-2, 4)$
H $(-2, 1)$
J $(1, -2)$

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



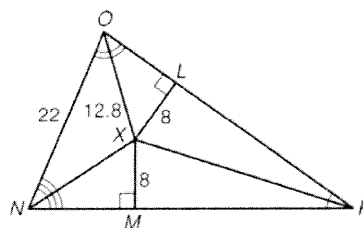
- A $m\angle 1 = 90^\circ$
B $m\angle 2 = 90^\circ$
C $m\angle 1 = 90^\circ$ and $m\angle 2 = 90^\circ$
D $m\angle FYE + m\angle DYE = 90^\circ$

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



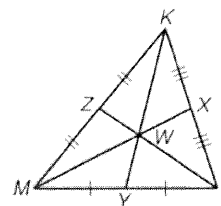
- F 33.75
G 45
H 50
J Not here

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



- A 8
B 12.8
C 11
D 12

6. If $WX = 3.6$, $WL = 6.1$, and $KW = 8$, what is the value of ZW ?

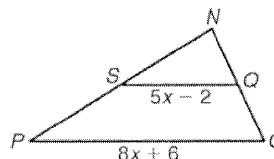


- F 3.05
G 3.6
H 4
J 4.06

7. Which is the orthocenter of a triangle with vertices $(-2, 1)$, $(3, 4)$, and $(3, -4)$?

- A $(0, 1)$
B $(1, 0)$
C $(6, 1)$
D $(8, 1)$

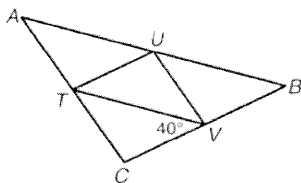
8. \overline{SQ} is a midsegment of $\triangle NOP$. What is the length of \overline{OP} ?



- F 5
G 14
H 23
J 46

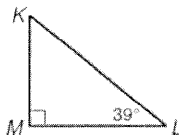
CHAPTER
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Chapter Test
Form B continued

9. $\triangle TUV$ is the midsegment triangle of $\triangle ABC$. Which angle does NOT necessarily measure 40° ?

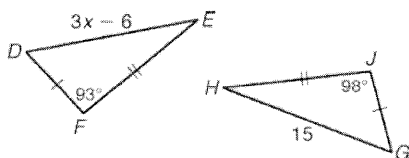


- A $\angle VTU$ C $\angle CTV$
 B $\angle TUA$ D $\angle VBU$
10. Which statement is used in an indirect proof to show that an equiangular triangle cannot have a right angle?
- F Isosc. \triangle Thm.
 G \triangle Sum Thm.
 H Rt. $\angle \cong$ Thm.
 J Acute \angle of a rt. \triangle are complementary.
11. The lengths of two sides of a triangle are 7 and 11. Which could NOT be the length of the third side?
- A 5 C 12
 B 10 D 19

12. Which statement is false?

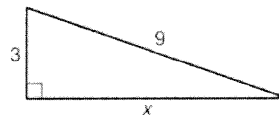


- F $\triangle KLM$ is scalene.
 G $ML + KM > KL$
 H $m\angle L < m\angle K$
 J $KM > ML$
13. Which best describes the range of values for x ?



- A $0 < x < 7$ C $x < 15$
 B $0 < x < 15$ D $6 < x < 7$

14. What is the value of x in simplest radical form?



- F $3\sqrt{12}$ H $\sqrt{72}$
 G $6\sqrt{2}$ J $\sqrt{89}$

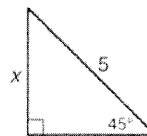
15. Which numbers form a Pythagorean triple?

- A 3, 4, 6 C 9, 12, 15
 B 7, $6\sqrt{2}$, 11 D 8, 15, 18

16. Which side length will form an obtuse triangle with sides of length 8 and 10?

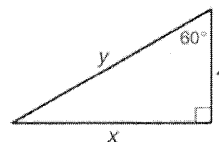
- F 6 H 12
 G 9 J 13

17. What is the value of x in simplest radical form?



- A 2.5 C $\frac{5\sqrt{2}}{2}$
 B $\frac{5}{\sqrt{2}}$ D $5\sqrt{2}$

18. Which is a correct set of values?



- F $x = 27$, $y = 9\sqrt{3}$, $z = 18\sqrt{3}$
 G $x = 27$, $y = 18\sqrt{3}$, $z = 9\sqrt{3}$
 H $x = 9\sqrt{3}$, $y = 27$, $z = 18\sqrt{3}$
 J $x = 18\sqrt{3}$, $y = 9\sqrt{3}$, $z = 27$