

Geometry
Blizzard Bag #2

Directions: Complete the following review sheet from Chapters 1 to 4. Be sure to show your work. You will have 2 weeks to complete from the “Snow Day.” No Late work will be accepted.

Enjoy!

4 Standardized Test Practice

(Chapters 1–4)

Part 1: Multiple Choice

Instructions: Fill in the appropriate circle for the best answer.

1. If $m\angle 1 = 5x - 4$ and $m\angle 2 = 52 - 9y$, which values for x and y would make $\angle 1$ and $\angle 2$ complementary? (Lesson 1-5)

- A $x = 2, y = 12$ C $x = 12, y = 2$
 B $x = 27, y = \frac{1}{3}$ D $x = \frac{1}{3}, y = 27$

1. (A) (B) (C) (D)

2. Which is *not* a polygon? (Lesson 1-6)



2. (F) (G) (H) (J)

3. Complete the statement so that its conditional *and* its converse are true.
 If $\angle 1 \cong \angle 2$, then $\angle 1$ and $\angle 2$. (Lesson 2-3)

- A are supplementary. C are complementary.
 B have the same measure. D are consecutive interior angles.

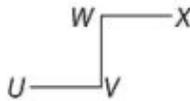
3. (A) (B) (C) (D)

4. Complete this proof. (Lesson 2-7)

Given: $\overline{UV} \cong \overline{VW}$
 $\overline{VW} \cong \overline{WX}$

Prove: $UV = WX$

Proof:



Statements	Reasons
1. $\overline{UV} \cong \overline{VW}$; $\overline{VW} \cong \overline{WX}$	1. Given
2. $UV = VW$; $VW = WX$	2. <u> </u>
3. $UV = WX$	3. Transitive Property

- F Definition of congruent segments
 G Substitution Property
 H Segment Addition Postulate
 J Symmetric Property

4. (F) (G) (H) (J)

5. Which equation has a slope of $\frac{1}{3}$ and a y -intercept of -2 ? (Lesson 3-4)

- A $y = \frac{1}{3}x + 2$ C $y = \frac{1}{3}x - 2$
 B $y = 2x - \frac{1}{3}$ D $y = -2x + \frac{1}{3}$

5. (A) (B) (C) (D)

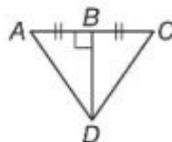
6. Classify $\triangle DEF$ with vertices $D(2, 3)$, $E(5, 7)$ and $F(9, 4)$. (Lesson 4-1)

- F acute G equiangular H obtuse J right

6. (F) (G) (H) (J)

7. Which postulate or theorem can be used to prove $\triangle ABD \cong \triangle CBD$? (Lesson 4-4)

- A SAS C SSS
 B ASA D AAS



7. (A) (B) (C) (D)

4 Standardized Test Practice *(continued)*

Part 3: Short Response
Instructions: Write your answer in the space provided.

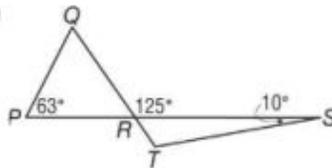
17. The perimeter of a regular pentagon is 14.5 feet. Find the new perimeter if the length of each side of the pentagon is doubled. (Lesson 1-6)

17. _____

18. Make a conjecture about the next number in the sequence 5, 7, 11, 17, 25. . . . (Lesson 2-1)

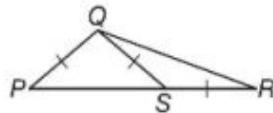
18. _____

19. Find $m\angle PQR$. (Lesson 4-2)



19. _____

20. If $PQ = QS$, $QS = SR$, and $m\angle R = 20$, find $m\angle PSQ$. (Lesson 4-6)

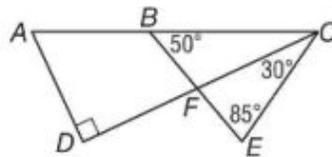


20. _____

21. Name the corresponding congruent angles and sides for $\triangle PQR \cong \triangle HGB$. (Lesson 4-3)

21. _____

22. Refer to the figure at the right to answer the questions below.



a. Name the segment that represents the distance from F to \overline{AD} . (Lesson 3-6)

22a. _____

b. Classify $\triangle ADC$. (Lesson 4-1)

22b. _____

c. Find $m\angle ACD$. (Lesson 4-2)

22c. _____