

# Chapter 7 Mid-Chapter Test

(Lessons 7-1 through 7-4)

SCORE \_\_\_\_\_

**Part I** Write the letter for the correct answer in the blank at the right of each question.

1. Polygon  $ABCD$  is similar to polygon  $PQRS$ . Which proportion must be true?

- A  $\frac{AC}{AD} = \frac{PQ}{PS}$       B  $\frac{BC}{CD} = \frac{QR}{RS}$       C  $\frac{AB}{BD} = \frac{PQ}{QR}$       D  $\frac{CD}{AB} = \frac{PQ}{RS}$

1.           B          

2. This fall, 126 students participated in the soccer program, while 54 played volleyball. What was the ratio of soccer players to volleyball players?

- F  $\frac{3}{4}$       G  $\frac{3}{7}$       H  $\frac{4}{3}$       J  $\frac{7}{3}$

2.           J          

3. The ratio of the measures of the angles of a triangle is 2:3:10. What is the least angle measure?

- A 12      B 15      C 24      D 36

3.           C          

4. Find the value of  $x$ .

- F 2      H 6  
G 4.8      J 6.4



4.           J          

5. Rectangle  $ABCD \sim$  rectangle  $EFGH$ , the perimeter of  $ABCD$  is 54 centimeters and the perimeter of  $EFGH$  is 36 centimeters. What is the scale factor of  $ABCD$  to  $EFGH$ ?

- A  $\frac{2}{3}$       B  $\frac{3}{2}$       C  $\frac{3}{5}$       D  $\frac{5}{3}$

5.           B          

## Part II

For Questions 6 and 7, determine whether each pair of triangles is similar. Justify your answer.



6.           No; SAS does not apply.          

7.           yes; SAS Similarity          

8. Determine whether  $\overline{MN} \parallel \overline{KL}$ . Justify your answer.



9. Find  $DE$ .



8.           Yes, parallel;  $\frac{JM}{MN} = \frac{JN}{NL}$           

9.           9          

10. **RECTANGLES** A rectangle has a perimeter of 14 inches. A similar rectangle has a perimeter of 10 inches. If the length of the larger rectangle is 4 inches, what is the length of the smaller rectangle? Round to the nearest tenth.

10.           2.9 in.

# Geometry Chapter 7 Test Answers

**Yi-Tong Ma**



**Geometry Chapter 7 Test Answers:**

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