

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

G 4.8

H 6

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.



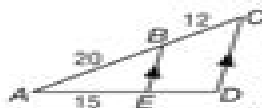
6. No; SAS does not apply.

7. yes; SAS Similarity

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



9. Find DE .



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

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.

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