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NAME _____ DATE _____ PERIOD _____
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6 Chapter 6 Mid-Chapter Test




(Lessons 6-1 through 6-3)

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

- If quadrilateral $ABCD \sim$ quadrilateral $PQES$, which proportion must be true? 1. _____
A. $\frac{AC}{PQ} = \frac{PS}{ES}$ B. $\frac{BC}{PQ} = \frac{QE}{ES}$ C. $\frac{AB}{PQ} = \frac{PS}{QE}$ D. $\frac{CD}{PQ} = \frac{PS}{ES}$
- This fall 126 students participated in the soccer program, while 54 played volleyball. What was the ratio of soccer players to volleyball players? 2. _____
A. $\frac{2}{3}$ B. $\frac{3}{2}$ C. $\frac{4}{3}$ D. $\frac{3}{4}$
- The ratio of the measures of the angles of a triangle is 2:3:10. What is the least angle measure? 3. _____
A. 12 B. 15 C. 24 D. 36
- Find x . 4. _____
A. 2 B. 4.8
C. 6 D. 6.4
- If 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 $EFGH$? 5. _____
A. $\frac{3}{2}$ B. $\frac{2}{3}$ C. $\frac{3}{5}$ D. $\frac{5}{3}$

Part II

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

-  6. _____
-  7. _____
- If $\triangle ABE \sim \triangle BCD$, find DE and the scale factor of $\triangle ABE$ to $\triangle BCD$. 8. _____

- Quadrilateral $ABCD \sim$ quadrilateral $RSUV$, $m\angle ABC = 120$, and the scale factor of $ABCD$ to $RSUV$ is $\frac{2}{3}$. What is $m\angle RSU$? 9. _____
- MODELS** Sasha made a model of a clipper ship. If her model has a length of 18 inches, and the original ship had a length of 180 feet and a width of 32 feet, what should be the width of her model? 10. _____

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