

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 $\frac{3}{2}$ B $\frac{2}{3}$ 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.**

Chapter 7 Test A

Joacim Rocklöv



Chapter 7 Test A:

Chapter 7 Test A: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Chapter 7 Test A : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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