15. Point B is on AC.

16. \( \frac{2}{7} \cdot \frac{1}{2} = \frac{2}{14} = \frac{1}{7} \)

17. The base of a triangle is 7 cm.

18. The height of the triangle is 3 cm.

19. The area of the triangle is 7 cm².

20. The length of the hypotenuse is \( \sqrt{7^2 + 3^2} \).

21. The length of the hypotenuse is \( \sqrt{49 + 9} = \sqrt{58} \).

22. The length of the hypotenuse is approximately \( \sqrt{58} \).

23. The length of the hypotenuse is \( \sqrt{58} \) cm.

24. What is the length of \( AB \)?

25. To find the length of \( AB \), use the Pythagorean Theorem.

26. In Exercises 1-3, use the figure below.

27. In Exercises 4-6, use the points A, B, C, and D.

28. In Exercises 7-9, use the figure below.

29. In Exercises 10-12, use the points A, B, C, and D.
Problem

A right triangle has sides of 9 and 12 units.

1. Find the length of the hypotenuse.
   - [ ] 15
   - [ ] 25
   - [ ] 16
   - [ ] 14

2. If the hypotenuse is 15 units, find the area of the triangle.
   - [ ] 54
   - [ ] 56
   - [ ] 54
   - [ ] 58

3. If the area of the triangle is 54 square units, find the length of the hypotenuse.
   - [ ] 13
   - [ ] 15
   - [ ] 16
   - [ ] 18

4. If the area of the triangle is 54 square units, find the length of the shortest side.
   - [ ] 8
   - [ ] 9
   - [ ] 10
   - [ ] 12

5. If the area of the triangle is 54 square units, find the length of the longest side.
   - [ ] 10
   - [ ] 12
   - [ ] 13
   - [ ] 14

6. If the area of the triangle is 54 square units, find the length of the shortest side.
   - [ ] 8
   - [ ] 9
   - [ ] 10
   - [ ] 12

7. If the area of the triangle is 54 square units, find the length of the longest side.
   - [ ] 10
   - [ ] 12
   - [ ] 13
   - [ ] 14
have a common endpoint.
If two rays are opposite rays, then they
are collinear.
If point Y is the midpoint of , then
length of .
If is less than , then
than .
If two line segments form a right angle,
then they are perpendicular lines.
If two statements can form a right angle,
which statements are true?

If is a right angle, then
If is not a right angle, then
If is not a right angle, then
If is not a right angle, then

Given: If , then .

If is the complement of , then
If is the complement of , then
If is the complement of , then

A. A B C
B. A B C
C. A B C
D. A B C

Which is the correct set of the given statements?

2. Which conclusion can be made if ?

3. What is the next letter in the sequence?

4. Which property of equality does the

5. If all sides of a polygon are congruent,

6. What property of equality does the


8. Which property of equality does the

9. Given: Two line segments are equal.

10. Which property of equality does the

11. Two statements are opposite.

12. Two statements are congruent.

13. Two statements are perpendicular.

14. Two statements are complementary.
SHOW ALL WORK!!!

Geometry Final Exam Review Semester I

Chapter 3: Multiple Choice Part I
1. Which is the value of $L$?

2. Which is the value of $S$?

3. What is the value of $P$?

4. Which is the value of $Q$?

5. What is the value of $R$?

6. What is the value of $T$?

7. Which is the value of $U$?

8. Which is the value of $V$?

9. Which is the value of $W$?

10. Which is the value of $X$?

11. Which is the value of $Y$?

12. Which is the value of $Z$?

13. What is the area of the square?

14. What is the area of the rectangle?

15. What is the area of the triangle?

16. What is the area of the parallelogram?

17. What is the area of the trapezoid?

18. What is the area of the circle?

19. What is the area of the sector?

20. What is the area of the ellipse?

21. What is the area of the annulus?

22. What is the area of the polyhedron?

23. What is the area of the curved surface?

24. What is the area of the total surface?

25. What is the area of the lateral surface?

26. What is the area of the base?

27. What is the area of the face?

28. What is the area of the edge?

29. What is the area of the vertex?

30. What is the area of the region?

31. What is the area of the segment?

32. What is the area of the sector?

33. What is the area of the region?

34. What is the area of the region?

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98. What is the area of the region?

99. What is the area of the region?

100. What is the area of the region?

SHOW ALL WORK!!!

Chapter 9: Multiple Choice Part 1

Geometry Final Exam Review Semester 1