

Solutions - 2008 Level 2 Geometry Final Exam

Exam will be released this year

1. Scalene
2. Bisector
3. Perpendicular
4. Parallelogram, rectangle, or rhombus
5. Obtuse
6. Longest
7. Trapezoid
8. Supplementary
9. Congruent
10. Rhombus
11. Radius
12. Endpoint
13. Sine
14. Height
15. Legs
16. 130°
17. 55°
18. \overline{JK}
19. MP
20. 13
21. d
22. 48°
23. $\triangle ABCA$
24. 10
25. 122°
26. 50.2 in^2
27. 10 cm
28. 8
29. rotation
30. reflection
31. ASA
32. SAS
33. 9
34. 630 units^2
35. 600 units^3
36. $3/5 = 0.6$
37. 20 m^3
38. 84.8 cm^2
39. 13
40. 30 ft^2
41. 3.14 mm
42. $x = 21, y = 130^\circ$
43. a. 5 in
b. 31.4 in

44. $x = 30$
 $y = 8$
45. a. $x = 5$
b. 15
46. a. $x = 5$
b. 125 cm^3
47. a. 20
b. 24°
48. a. $x = 6.4 \text{ in}$
 $y = 2.8 \text{ in}$
b. 16.2 in
49. Area = 12.5, perimeter = 17.1
50. a. 50°
b. parallelogram; because both pairs of opposite angles are congruent
51. The student did not correctly distribute $2(w - 4)$.
52. Alternate interior angles are not congruent; OR same-side interior angles are not supplementary; OR the lines cannot be parallel because the appropriate angles are not equal/supplementary.
53. Any two sides added together must be greater than the third side: $4 + 11$ is not bigger than 16.
54. The angles A and D is not between the 2 given sides
55. Obtuse triangles have only ONE obtuse angle, and acute triangles have ALL acute angles - the triangle is obtuse only.
56. Parallelograms have TWO pairs of parallel sides, while trapezoids can have only ONE pair of parallel sides.