SM2H 6.3 answers

1. Inscribed
2. half
3. Diameter
4. Opposite
5. 40
6. 47
7. 120
8. 24 angle inside is average of outside arcs
9. 41 angle inside is average of outside arcs
10. 79 angle inside is average of outside arcs
11. 3
12. 98.5
13. 5
14. If angle intersection is 90 degrees between line and radius, then line is tangent to circle. It IS 90 degrees because $25^2 = 24^2 + 7^2$
15. $108°$
16. 15
17. 71 inscribed angle is half the measure of its intercepted arc
18. 98 if quad inscribed in circle, opposite angles must be supplementary (add to 180)
19. 33
20. 108
21. 190
22. 90
23. 55 angle CBD is 65 because of inscribed angles, three angles in a triangle add to 180
24. 80
25. 42
26. 96
27. Perpendicular
28. Diameter
29. Congruent
30. chords
31. No – the angle isn't 90 degrees
32. No $\overline{AB}$ does not bisect $\overline{CD}$
33. Yes
$\overline{AB}$ perpendicular to $\overline{CD}$, AND $\overline{AB}$ bisects $\overline{CD}$
34. 4
35. 3

36. 12
37. $\widehat{WX} \cong \widehat{XY}$ if two chords are congruent, the corresponding arcs are congruent
38. $\overline{JK} \cong \overline{ML}$ if two arcs are congruent, the corresponding chords are congruent
39. $\overline{EF} \cong \overline{ED}$ & $\widehat{DB} \cong \widehat{BF}$ if diameter of circle is perp bisector, it bisects both the chord and the corresponding arc
40. $\overline{AB}$
41. No, it's not a perpendicular bisector
42. $\widehat{CB} \cong \widehat{BE}$ or $\widehat{CA} \cong \widehat{AE}$
43. Sum
44. Product, product
45. $75°$ If two chords intersect inside a circle, the measure of each angle is half the sum of the measures of the intercepted arcs.
46. $97°$
47. $55°$
48. 10
49. 50
50. 86
51. 10
52. 12
53. 110
54. 20
55. 4
56. 130
57. 12.5
58. 5
59. 10
60. 10 (x is the length of the whole side)
61. 8
62. 3
63. 15
64. 3
65. 10
66. 7
67. 12
68. 8
69. 10
70. $2\frac{2}{3}$