

Geometry NYC Review ANSWERS

	SLOPE	DISTANCE	MIDPOINT
1.	$\frac{7}{4}$	8.1	(4, 7.5)
2.	$\frac{7}{8}$	10.6	(2, 6.5)
3.	$\frac{12}{5}$	13	(4.5, 13)
4.	$-\frac{3}{11}$	11.4	(6.5, 2.5)
5.	$\frac{5}{2}$	5.4	(-5, 1.5)
6.	$\frac{13}{14}$	19.1	(-1, 4.5)
7.	$-\frac{5}{4}$	12.8	(0, 3)
8.	$-\frac{8}{3}$	17.1	(-3, 0)

9. (11, -5) 12. (7, 5.5) 15. 46
 10. (0, 6) 13. (10, 11) 16. 13
 11. (14, 8) 14. 30 17. $a \parallel e$ $c \parallel d$

18. $\angle 2 = \angle 6$ $\angle 1 = \angle 7$ $\angle 15 = \angle 9$ $\angle 12$ is supplementary to $\angle 8$ $\angle 11$ is supplementary to $\angle 13$
 19. $\angle 1 = \angle 4$ $\angle 14 = \angle 4$ $\angle 16 = \angle 6$ $\angle 2$ is supplementary to $\angle 4$ $\angle 5$ is supplementary to $\angle 7$

	SLOPE	DISTANCE	MIDPOINT
20.	$\frac{3}{8}$	8.5	(0, 3.5)
21.	$\frac{9}{2}$	9.2	(3, 0.5)
22.	-1	8.5	(-1, -1)

23. (-1, 4) (-5, -2)
 24. D
 25. A
 26. C
 27. D
 28. 14.8
 29. 31
 30. 128°
 31. $4n + 3$

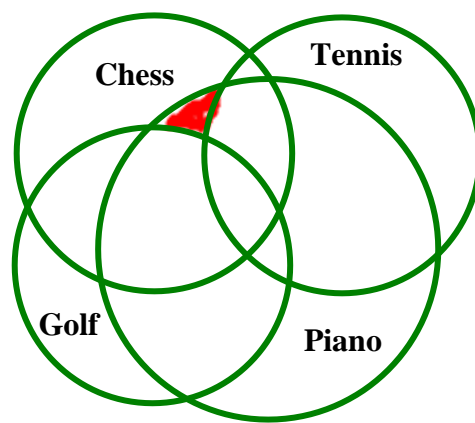
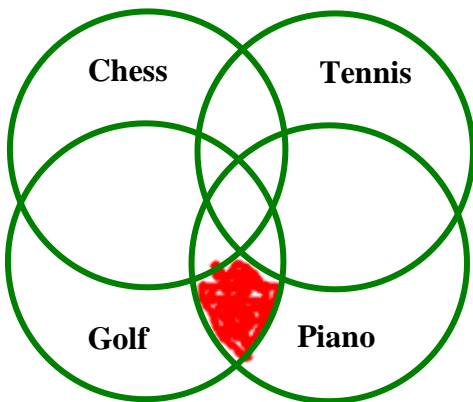
- 32. 64.1
- 33. $16n + 20$
- 34. 20
- 35. 50°
- 36. 16
- 37. (6, -4)
- 38. $\sim q \rightarrow \sim p$
- 39. $q \rightarrow \sim p$
- 40. $p \rightarrow \sim q$
- 41. $q \rightarrow \sim p$
- 42. $\sim p \rightarrow q$
- 43. $\sim p \rightarrow q$

44. Converse: If $a = \frac{c}{b}$, then $ab = c$.

Inverse: If $ab \neq c$, then $a \neq \frac{c}{b}$.

Contrapositive: If $a \neq \frac{c}{b}$, then $ab \neq c$.

- 45. $x \approx 22.5$
- 46. $x \approx 30.0$
- 47. $x \approx 36.6$
- 48. $x \approx 42.2$
- 49. 126 cm
- 50. 113 cm^2
- 51. 154 cm^2
- 52. 126 cm
- 53. $\approx 1963 \text{ ft}^2$
- 54.
- 55.



- 56. B
- 57. $\angle 1 = 130^\circ$ $\angle 2 = 40^\circ$ $\angle 3 = 70^\circ$ $\angle 4 = 120^\circ$ $\angle 5 = 30^\circ$
- 58. $\angle 1 = 45^\circ$ $\angle 2 = 60^\circ$ $\angle 3 = 75^\circ$ $\angle 4 = 25^\circ$ $\angle 5 = 75^\circ$
- 59. $\angle 1 = 120^\circ$ $\angle 2 = 20^\circ$ $\angle 3 = 10^\circ$ $\angle 4 = 80^\circ$ $\angle 5 = 40^\circ$
- 60. $\angle 1 = 60^\circ$ $\angle 2 = 110^\circ$ $\angle 3 = 50^\circ$ $\angle 4 = 70^\circ$ $\angle 5 = 70^\circ$