

Name: _____

Class: _____

Date: _____

Write the answer in Roster Notation.

- | | |
|---|-----------|
| 1. The integers less than -8 | 1. _____ |
| 2. The even integers between 2 and 10 | 2. _____ |
| 3. The odd integers greater than or equal to 19 | 3. _____ |
| 4. The even integers between -8 and 0 | 4. _____ |
| 5. The integers between 1 and 6, inclusive. | 5. _____ |
| 6. The integers less than or equal to -14 | 6. _____ |
| 7. The odd integers greater than -13 | 7. _____ |
| 8. The odd integers between 17 and 25 | 8. _____ |
| 9. The integers between 10 and 15 | 9. _____ |
| 10. The integers between -9 and -4 , inclusive. | 10. _____ |

Write the set using Interval Notation.

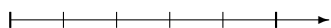
- | | |
|----------------------------------|-----------|
| 11. $\{x -18 < x < 7\}$ | 11. _____ |
| 12. $\{x x < -1\}$ | 12. _____ |
| 13. $\{x -11 < x\}$ | 13. _____ |
| 14. $\{x -17 \leq x < 2\}$ | 14. _____ |
| 15. $\{x x \leq -3\}$ | 15. _____ |
| 16. $\{x -16 \leq x \leq -5\}$ | 16. _____ |
| 17. $\{x -9 < x \leq -7\}$ | 17. _____ |
| 18. $\{x -13 \leq x \leq 15\}$ | 18. _____ |
| 19. $\{x 13 \leq x\}$ | 19. _____ |
| 20. $\{x 3 \leq x \leq 5\}$ | 20. _____ |

Write the set using Set Builder Notation.

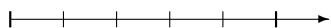
- | | |
|----------------------|-----------|
| 21. $[-16, 20)$ | 21. _____ |
| 22. $[18, \infty)$ | 22. _____ |
| 23. $(10, 19)$ | 23. _____ |
| 24. $(2, 18)$ | 24. _____ |
| 25. $(-\infty, 12]$ | 25. _____ |
| 26. $(-12, \infty)$ | 26. _____ |
| 27. $[6, 15]$ | 27. _____ |
| 28. $(-\infty, -15)$ | 28. _____ |
| 29. $(-2, 19]$ | 29. _____ |
| 30. $[-18, \infty)$ | 30. _____ |

Graph the set.

31. $\{x|1 \leq x < 12\}$



32. $\{x|x < -3\}$



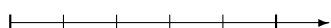
33. $\{x|6 \leq x < 20\}$



34. $\{x|x \leq -8\}$



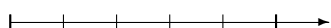
35. $\{x|8 \leq x \leq 18\}$



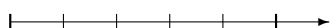
36. $\{x|16 \leq x\}$



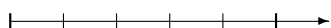
37. $\{x|x \leq 15\}$



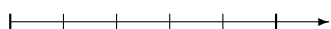
38. $\{x|-18 < x < 11\}$



39. $\{x|-7 < x\}$

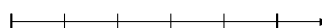


40. $\{x|-2 < x \leq 13\}$

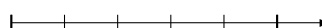


Graph the set.

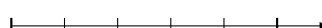
41. $(-3, 8]$



42. $(-\infty, -8)$



43. $(-18, \infty)$



44. $(0, 13)$



45. $[-12, -4]$



46. $[11, \infty)$



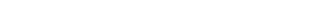
47. $[-16, 2)$



48. $[7, \infty)$



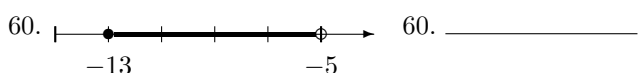
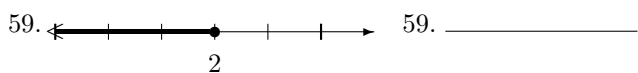
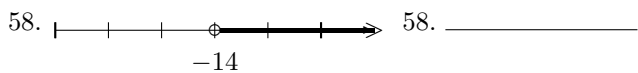
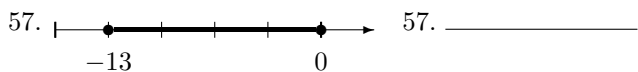
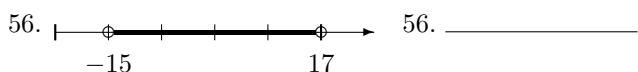
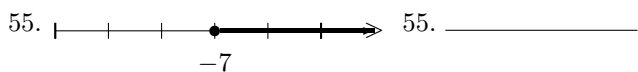
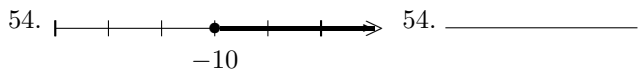
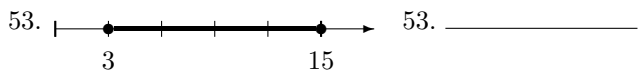
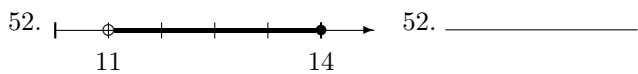
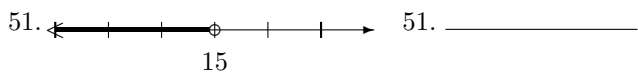
49. $(-\infty, -17]$



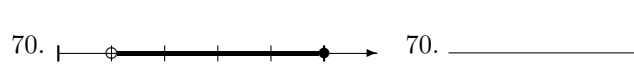
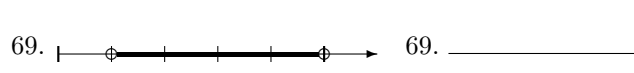
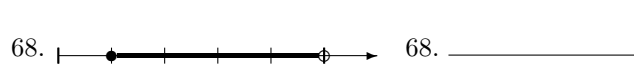
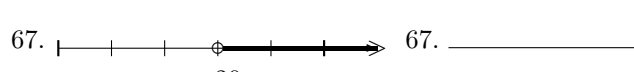
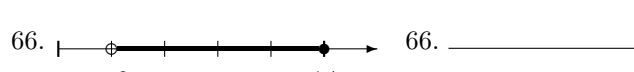
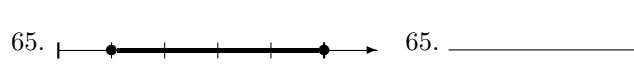
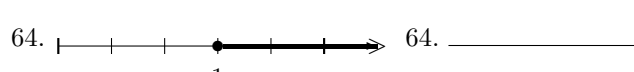
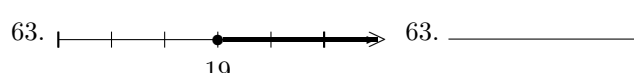
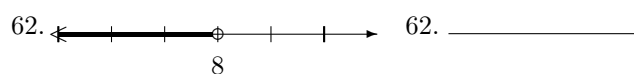
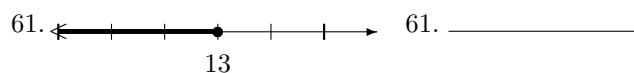
50. $(-20, 4)$



Write the set in Set-Builder notation.



Write the set in Interval notation.



Answers to Odds

Question 1: $\{\dots - 11, -10, -9\}$

Question 3: $\{19, 21, 23\dots\}$

Question 5: $\{1, 2, 3, 4, 5, 6\}$

Question 7: $\{-11, -9, -7\dots\}$

Question 9: $\{11, 12, 13, 14\}$

Question 11: $(-18, 7)$

Question 13: $(-11, \infty)$

Question 15: $(-\infty, -3]$

Question 17: $(-9, -7]$

Question 19: $[13, \infty)$

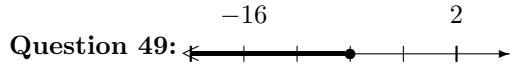
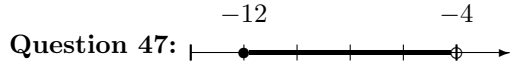
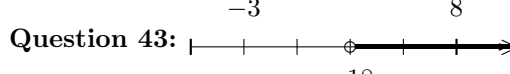
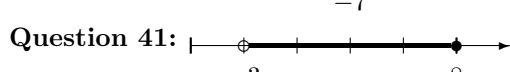
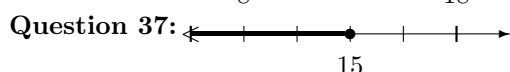
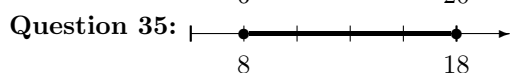
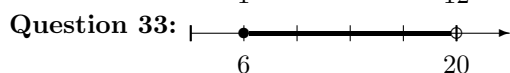
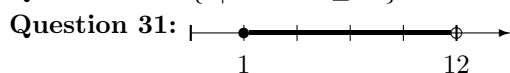
Question 21: $\{x \mid -16 \leq x < 20\}$

Question 23: $\{x \mid 10 < x < 19\}$

Question 25: $\{x \mid x \leq 12\}$

Question 27: $\{x \mid 6 \leq x \leq 15\}$

Question 29: $\{x \mid -2 < x \leq 19\}$



Question 51: $\{x \mid x < 15\}$

Question 53: $\{x \mid 3 \leq x \leq 15\}$

Question 55: $\{x \mid -7 \leq x\}$

Question 57: $\{x \mid -13 \leq x \leq 0\}$

Question 59: $\{x \mid x \leq 2\}$

Question 61: $(-\infty, 13]$

Question 63: $[19, \infty)$

Question 65: $[7, 19]$

Question 67: $(-20, \infty)$

Question 69: $(-12, -1)$