

Name: _____

Date: _____

Rational & Irrational Numbers

Grades 6 – 8 • 50 questions • Show your work

1. Is $\frac{2}{8}$ rational or irrational? _____
 2. Is 2π rational or irrational? _____
 3. Is 0.52 rational or irrational? _____
 4. Is π rational or irrational? _____
 5. Is $\frac{1}{2}$ rational or irrational? _____
 6. Is 0.5 rational or irrational? _____
 7. Is 0.41 rational or irrational? _____
 8. Is $\sqrt{96}$ rational or irrational? _____
 9. Is $\sqrt{102}$ rational or irrational? _____
 10. Is $\sqrt{78}$ rational or irrational? _____
 11. Is $\sqrt{26}$ rational or irrational? _____
 12. Is 0.37 rational or irrational? _____
 13. Is 0.25 rational or irrational? _____
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14. Is 0.61 rational or irrational? _____
15. Is $\sqrt{71}$ rational or irrational? _____
16. Is $\pi/2$ rational or irrational? _____
17. Is 0.56 rational or irrational? _____
18. Is $\sqrt{36}$ rational or irrational? _____
19. Is $3/6$ rational or irrational? _____
20. Is $\sqrt{18}$ rational or irrational? _____
21. Is 0.2 rational or irrational? _____
22. Is $\sqrt{8}$ rational or irrational? _____
23. Is $\sqrt{75}$ rational or irrational? _____
24. Is 0.36 rational or irrational? _____
25. Is $\sqrt{19}$ rational or irrational? _____
26. Is $1/3$ rational or irrational? _____
27. Is $\sqrt{110}$ rational or irrational? _____
28. Is 0.57 rational or irrational? _____
29. Is $5/9$ rational or irrational? _____
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30. Is $\sqrt{89}$ rational or irrational? _____
31. Is $\sqrt{12}$ rational or irrational? _____
32. Is $\sqrt{48}$ rational or irrational? _____
33. Is 0.29 rational or irrational? _____
34. Is $\sqrt{142}$ rational or irrational? _____
35. Is $\sqrt{111}$ rational or irrational? _____
36. Is 0.92 rational or irrational? _____
37. Is $\sqrt{74}$ rational or irrational? _____
38. Is $\sqrt{118}$ rational or irrational? _____
39. Is $\sqrt{124}$ rational or irrational? _____
40. Is $\frac{3}{9}$ rational or irrational? _____
41. Is $\frac{7}{9}$ rational or irrational? _____
42. Is $\sqrt{122}$ rational or irrational? _____
43. Is $\sqrt{104}$ rational or irrational? _____
44. Is $\sqrt{4}$ rational or irrational? _____
45. Is $\sqrt{2}$ rational or irrational? _____
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46. Is **0.78** rational or irrational? _____

47. Is $\sqrt{138}$ rational or irrational? _____

48. Is $\sqrt{113}$ rational or irrational? _____

49. Is $\sqrt{121}$ rational or irrational? _____

50. Is **0.95** rational or irrational? _____

Answer Key – Rational & Irrational Numbers

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|-----------------------|-----------------------|-----------------------|
| 1. <i>rational</i> | 2. <i>irrational</i> | 3. <i>rational</i> |
| 4. <i>irrational</i> | 5. <i>rational</i> | 6. <i>rational</i> |
| 7. <i>rational</i> | 8. <i>irrational</i> | 9. <i>irrational</i> |
| 10. <i>irrational</i> | 11. <i>irrational</i> | 12. <i>rational</i> |
| 13. <i>rational</i> | 14. <i>rational</i> | 15. <i>irrational</i> |
| 16. <i>irrational</i> | 17. <i>rational</i> | 18. <i>rational</i> |
| 19. <i>rational</i> | 20. <i>irrational</i> | 21. <i>rational</i> |
| 22. <i>irrational</i> | 23. <i>irrational</i> | 24. <i>rational</i> |
| 25. <i>irrational</i> | 26. <i>rational</i> | 27. <i>irrational</i> |
| 28. <i>rational</i> | 29. <i>rational</i> | 30. <i>irrational</i> |
| 31. <i>irrational</i> | 32. <i>irrational</i> | 33. <i>rational</i> |
| 34. <i>irrational</i> | 35. <i>irrational</i> | 36. <i>rational</i> |
| 37. <i>irrational</i> | 38. <i>irrational</i> | 39. <i>irrational</i> |
| 40. <i>rational</i> | 41. <i>rational</i> | 42. <i>irrational</i> |
| 43. <i>irrational</i> | 44. <i>rational</i> | 45. <i>irrational</i> |
| 46. <i>rational</i> | 47. <i>irrational</i> | 48. <i>irrational</i> |
| 49. <i>rational</i> | 50. <i>rational</i> | |
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