

Rational Exponents WORKSHEET

Answers*MULTIPLE CHOICE*

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|-------|-------|-------|-------|-------|
| 1. B | 2. A | 3. D | 4. C | 5. D |
| 6. B | 7. B | 8. A | 9. C | 10. D |
| 11. A | 12. D | 13. C | 14. C | 15. A |
| 16. B | 17. D | 18. C | 19. D | 20. B |

SHORT ANSWER

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|---|---|-------------------------------|
| 21. $\left(\frac{1}{3}\right)^6$ | 22. $25x^6$ | 23. 4 or -4 |
| 24. m and n are either both even or both odd. | 25. 3^3 | 28. $\frac{32}{243}$ |
| 26. b^{29} | 27. 8 or -8 | 31. $\frac{1}{c^{19}}$ |
| 29. 9^{18} | 30. -7 | 34. $\frac{63}{32}$ |
| 32. 9^{-3} | 33. 1 | 37. $\frac{1}{\frac{23}{12}}$ |
| 35. November | 36. -2 | 40. 5.311 |
| 38. a is a fraction. | 39. $121^{\frac{1}{5}}$ and $\sqrt[5]{121}$ | 43. $256^{\frac{3}{4}}$ |
| 41. w^3 | 42. 64 | |
| 44. $\sqrt[3]{216^2}$ | 45. $10^{\frac{49}{15}}$ | |