

Name: _____

Date: _____

Exponent Rules

Grades 6 – 8 • 50 questions • Show your work

1. $x^5 \div x^2 =$ _____

2. $5^{-1} =$ _____

3. $x^3 \div x^2 =$ _____

4. $x^6 \times x^3 =$ _____

5. $(x^2)^4 =$ _____

6. $(x^4)^3 =$ _____

7. $x^8 \div x^4 =$ _____

8. $2^{-2} =$ _____

9. $x^7 \times x^2 =$ _____

10. $x^5 \times x^3 =$ _____

11. $x^7 \div x^4 =$ _____

12. $x^7 \times x^5 =$ _____

13. $x^4 \times x^2 =$ _____

14. $x^7 \div x^5 =$ _____

15. $4^{-2} =$ _____

16. $5^{-3} =$ _____

17. $x^6 \div x^4 =$ _____

18. $x^4 \div x^2 =$ _____

19. $x^{10} \div x^5 =$ _____

20. $x^2 \times x^4 =$ _____

21. $(x^2)^2 =$ _____

22. $4^{-1} =$ _____

23. $2^{-1} =$ _____

24. $x^3 \times x^6 =$ _____

25. $x^4 \div x^3 =$ _____

26. $x^4 \times x^5 =$ _____

27. $(x^2)^3 =$ _____

28. $x^6 \div x^3 =$ _____

29. $x^6 \times x^6 =$ _____

30. $x^7 \div x^2 =$ _____

31. $4^{-3} =$ _____

32. $(x^3)^2 =$ _____

33. $(x^3)^4 =$ _____

34. $x^9 \div x^5 =$ _____

35. $5^{-2} =$ _____

36. $x^5 \div x^3 =$ _____

37. $x^9 \div x^4 =$ _____

38. $(x^4)^2 =$ _____

39. $3^{-1} =$ _____

40. $x^4 \times x^7 =$ _____

41. $2^{-3} =$ _____

42. $(x^3)^3 =$ _____

43. $x^5 \div x^4 =$ _____

44. $(x^4)^4 =$ _____

45. $x^4 \times x^3 =$ _____

46. $3^{-2} =$ _____

47. $x^2 \times x^2 =$ _____

48. $x^8 \div x^3 =$ _____

49. $x^6 \times x^7 =$ _____

50. $x^7 \div x^3 =$ _____

Answer Key — Exponent Rules

1. x^3

2. $1/5$

3. x^1

4. x^9

5. x^8

6. x^{12}

7. x^4

8. $1/4$

9. x^9

10. x^8

11. x^3

12. x^{12}

13. x^6

14. x^2

15. $1/16$

16. $1/125$

17. x^2

18. x^2

19. x^5

20. x^6

21. x^4

22. $1/4$

23. $1/2$

24. x^9

25. x^1

26. x^9

27. x^6

28. x^3

29. x^{12}

30. x^5

31. $1/64$

32. x^6

33. x^{12}

34. x^4

35. $1/25$

36. x^2

37. x^5

38. x^8

39. $1/3$

40. x^{11}

41. $1/8$

42. x^9

43. x^1

44. x^{16}

45. x^7

46. $1/9$

47. x^4

48. x^5

49. x^{13}

50. x^4
