

1. 8
2. h^4
3. $\frac{5y^5}{3}$
4. $5b^2$
5. 6
6. 121
7. x^4
8. a^8
9. 1
10. 1
11. z^7
12. 1
13. c
14. 1
15. 2
16. $\frac{1}{4}$
17. $\frac{1}{49}$
18. $\frac{1}{m^4}$
19. $\frac{1}{5a^3}$
20. $\frac{1}{2m^{100}}$
21. $\frac{1}{b^3}$
22. $\frac{1}{5m^2}$
23. $\frac{1}{1,296}$
24. $\frac{1}{a^5}$
25. y^{-3}
26. $a^{-6}b^2$
27. $m^{-2}n^{-2}$
28. $x^{-3}y^{-7}$
29. 2
30. 2
31. 5
32. -3
33. 5
34. -3
35. 900 times as much
36. The student thought that the base was -5.
37. Answers may vary. Sample: $\frac{1}{5^7}, \frac{5}{5^8}, \frac{x}{5^7x}$
38. Negative; $-3^{-2} = -\frac{1}{3^2} = -\frac{1}{9}$
39. x^{-2}
40. a^2b^{-5}
41. m^7n^{-7}
42. b^5c^{-9}
43. $\frac{x^7}{2}$
44. $\frac{1}{b^5}$
45. 13
46. $\frac{s^2}{r^5}$