

Name: _____

Date _____

Topic: Solving Exponential Equations (Lacking a Common Base)-Worksheet 1

1. $5^b = 9$

2. $7^x = 12$

3. $26^{y-5} = 6$

4. $(0.9)^y = 5$

5. $[2/4]^b = 150$

6. $6^{y+1} = 8$

7. $8^x = 18$

8. $4^y = 95$

9. $4^{t-4} = 5$

10. $(0.5)^y = 5$



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Topic: Solving Exponential Equations (Lacking a Common Base)-Worksheet 2

1. $6^a = 10$

2. $8^y = 13$

3. $27^{n-6} = 7$

4. $(0.2)^m = 6$

5. $[3/5]^c = 125$

6. $7^{t+2} = 9$

7. $9^q = 19$

8. $5^w = 96$

9. $5^{0-5} = 6$

10. $(0.6)^r = 6$



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Topic: Solving Exponential Equations (Lacking a Common Base)-Worksheet 3

1. $7^a = 11$

2. $9^s = 14$

3. $28^{d-7} = 8$

4. $(2.3)^f = 7$

5. $[4/6]^g = 136$

6. $8^{h+3} = 10$

7. $10^j = 20$

8. $6^k = 97$

9. $6^{l-6} = 7$

10. $(1.7)^z = 7$



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Topic: Solving Exponential Equations (Lacking a Common Base)-Worksheet 4

1. $8^Z = 12$

2. $10^X = 15$

3. $29^{C-8} = 9$

4. $(3.4)^V = 8$

5. $[5/7]^B = 123$

6. $9^{N+5} = 11$

7. $11^T = 22$

8. $7^Y = 98$

9. $7^{U-7} = 8$

10. $(2.4)^I = 8$



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Topic: Solving Exponential Equations (Lacking a Common Base)-Worksheet 5

1. $7^b = 8$

2. $6^x = 11$

3. $25^{y-4} = 5$

4. $(0.8)^y = 4$

5. $[1/3]^b = 160$

6. $5^{y+0} = 7$

7. $7^x = 17$

8. $3^y = 94$

9. $3^{t-3} = 4$

10. $(0.4)^y = 4$

