

Name _____

Date _____

Solving Exponential Equations (lacking a common base) - Matching Worksheet

Write the letter of the answer that matches the variable in each equation..

- | | | |
|-------|---|-----------|
| _____ | 1. Solve the exponential equation $17^j = 16$ | a. 1.04 |
| _____ | 2. Solve the exponential equation $3^r = 18$ | b. 2.63 |
| _____ | 3. Solve the exponential equation $9^{x-6} = 13$ | c. -3.394 |
| _____ | 4. Solve the exponential equation $(0.52)^q = 4$ | d. 2.011 |
| _____ | 5. Solve the exponential equation $31^d = 38$ | e. 0.9756 |
| _____ | 6. Solve the exponential equation $29^m = 36$ | f. 4.24 |
| _____ | 7. Solve the exponential equation $5^{x-2} = 6$ | g. 7.16 |
| _____ | 8. Solve the exponential equation $(0.47)^n = 13$ | h. -2.15 |
| _____ | 9. Solve the exponential equation $7^p = 51$ | i. 1.06 |
| _____ | 10. Solve the exponential equation $2^s = 19$ | j. 2.984 |

