



Name: _____

Date: _____

Solve each exponential equation.

Solve for x. Show your work.

1. $4^{2x} = 4^2$

2. $3^{2x} = 3^5$

3. $2^{2x} = 2^3$

4. $4^{2x} = 4^2$

5. $4^{2x} = 4^3$

6. $3^{2x} = 3^2$

7. $4^{2x} = 4^5$

8. $3^{2x} = 3^5$



Solve each exponential equation. – Answer Key

1. $4^{2x} = 4^2$

$x = 1.0$

2. $3^{2x} = 3^5$

$x = 2.5$

3. $2^{2x} = 2^3$

$x = 1.5$

4. $4^{2x} = 4^2$

$x = 1.0$

5. $4^{2x} = 4^3$

$x = 1.5$

6. $3^{2x} = 3^2$

$x = 1.0$

7. $4^{2x} = 4^5$

$x = 2.5$

8. $3^{2x} = 3^5$

$x = 2.5$