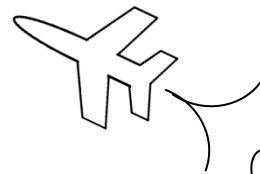


# Math on the Fly!



NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

## Solving Exponential Equations

Solve each equation.

1.  $11^{3x-11} = 11$

2.  $5^{x-5} = 25$

3.  $4^{5x+7} = 16^{x-1}$

4.  $13^{x^2} = 13^{3x}$

5.  $9^{x+4} = 27^{x-3}$

6.  $8^x = 32^{x+4}$

7.  $7 \cdot 7^{-3} \cdot 7^{-4} = 7^{6x}$

8.  $\frac{6^{8x}}{6^3} = 6^{6x} \cdot 6^5$

## SOLUTIONS

1.  $x = 4$

2.  $x = 7$

3.  $x = -3$

4.  $x = 0, x = 3$

5.  $x = 17$

6.  $x = -10$

7.  $x = -1$

8.  $x = 4$