

# Base and Exponent

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Find the value of  $x$ .

1)  $1,024 = 2^x$

$x =$  \_\_\_\_\_

2)  $x^2 = 25$

$x =$  \_\_\_\_\_

3)  $64 = 8^x$

$x =$  \_\_\_\_\_

4)  $5^x = 125$

$x =$  \_\_\_\_\_

5)  $225 = x^2$

$x =$  \_\_\_\_\_

6)  $81 = 3^x$

$x =$  \_\_\_\_\_

7)  $x^3 = 216$

$x =$  \_\_\_\_\_

8)  $10^x = 1,000$

$x =$  \_\_\_\_\_

9)  $256 = 4^x$

$x =$  \_\_\_\_\_

10)  $169 = 13^x$

$x =$  \_\_\_\_\_

11)  $2^x = 256$

$x =$  \_\_\_\_\_

12)  $x^6 = 729$

$x =$  \_\_\_\_\_