

# 10 Must-Do Exponent Questions for GMAT DS: Master the Basics and Ace the Test

The Graduate Management Admission Test (GMAT) is a standardized exam designed to assess candidates' analytical, quantitative, and verbal reasoning skills for business school admissions. The Data Sufficiency (DS) section of the GMAT tests your ability to evaluate given information and determine whether it is sufficient to answer a particular question.

Exponents play a significant role in GMAT DS questions, and it is essential to master the fundamentals to excel in this section.

## 10 Must-Do Exponent Questions

To help you prepare effectively, we have compiled 10 must-do exponent questions that cover various levels of difficulty and concepts. Each question is carefully crafted to test your understanding of exponent rules and your ability to apply them in GMAT-style DS questions.



### 10 Must Do Exponent Questions for GMAT DS (10 Must Do Questions) by Vibrant Publishers

★★★★★ 5 out of 5

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## Question 1

If  $a^2 = 4$ , what is the value of  $a^3$ ?

**Answer: 8**

**Question 2**

Simplify  $(x^2y^3)^2$ .

**Answer:  $x^4y^6$**

**Question 3**

Solve for  $x$ :  $3^x = 27$ .

**Answer: 3**

**Question 4**

If  $x > 0$  and  $y$  positive or negative?

**Answer: Negative**

**Question 5**

Evaluate  $10^0$ .

**Answer: 1**

**Question 6**

Find the value of  $x$ :  $(2^x)^3 = 512$ .

**Answer: 6**

### Question 7

Which of the following is equivalent to  $2^3$ ?

1. 8
2. 16
3. 32

**Answer:** 8

### Question 8

Simplify  $(3x^2y^{-3})^2$ .

**Answer:**  $9x^4y^{-6}$

### Question 9

If  $2^x$

**Answer:**  $x$

### Question 10

Solve for  $x$ :  $5^x = 125$ .

**Answer:** 3

### Tips for Solving Exponent Questions in GMAT DS

\* **Understand exponent rules:** Familiarize yourself with the laws of exponents, including multiplication, division, power of a power, and negative exponents. \* **Recognize common exponents:** Pay attention to

common exponents like  $2^3$  for 8 and  $10^0$  for 1. \* **Use the base-exponent form:** Always write numbers in base-exponent form, e.g.,  $8 = 2^3$ , to simplify calculations. \* **Evaluate given information:** Determine which exponent rules apply to the given information and apply them systematically. \* **Consider negative exponents:** Be aware of the implications of negative exponents and their effects on positive and negative numbers.

Mastering exponent questions is crucial for success in the GMAT DS section. By working through these 10 must-do questions and applying the strategies provided, you will build a solid foundation in exponents and enhance your ability to tackle various DS questions effectively. Remember, practice makes perfect, so commit to regular practice and refine your skills to ace the GMAT DS section and secure your desired business school admission.



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