



## The Five Most Common GMAT Math Questions

The GMAT features 37 math questions based on more than 200 math concepts. Here are examples of the five most commonly asked math concepts, in order, based on actual GMAT tests:

### 1. Integers and Number Properties

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If  $5^{11} \times 4^5 = 5 \times 10^k$ , what is the value of  $k$ ?

### 2. Functions

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For all numbers  $y$  such that  $y \neq 1$ , if  $f(y) = \frac{y^2-2}{y+1}$ , then  $\left(\frac{1}{f(y)}\right)\left(\frac{1}{f(2)}\right) =$

### 3. Work Problems

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Four machines, each working at the same constant rate, together can complete a certain job in 12 days. How many machines, each working at the same constant rate, will be needed to complete the job in eight days?

### 4. Counting Methods

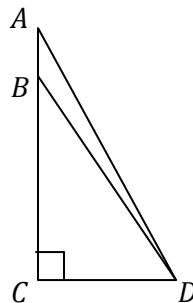
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Two members of a team are to be selected to represent the team at a national conference. If there are 45 different possible selections of the 2 members, how many members does the team have?

### 5. Variations of Triangles

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In the figure shown, if the measure of angle  $ADB$  is  $20^\circ$ , the measure of  $CAD$  is how many degrees less than the measure of  $CBD$ ?



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