

GMAT Quant Practice Test

38. If Paula drove the distance from her home to her college at an average speed that was greater than 70 kilometers per hour, did it take her less than 3 hours to drive this distance?
- (1) The distance that Paula drove from her home to her college was greater than 200 kilometers.
 - (2) The distance that Paula drove from her home to her college was less than 205 kilometers.
39. In the xy -plane, if line k has negative slope and passes through the point $(-5, r)$, is the x -intercept of line k positive?
- (1) The slope of line k is -5 .
 - (2) $r > 0$
40. If \$5,000 invested for one year at p percent simple annual interest yields \$500, what amount must be invested at k percent simple annual interest for one year to yield the same number of dollars?
- (1) $k = 0.8p$
 - (2) $k = 8$
44. If m and n are positive integers, is $(\sqrt{m})^n$ an integer?
- (1) $(\sqrt{m})$ is an integer.
 - (2) $(\sqrt{n})$ is an integer.
45. Of the 66 people in a certain auditorium, at most 6 people have their birthdays in any one given month. Does at least one person in the auditorium have a birthday in January?
- (1) More of the people in the auditorium have their birthday in February than in March.
 - (2) Five of the people in the auditorium have their birthday in March.

If $\frac{x+y}{z} > 0$, is $x < 0$?

- (1) $x < y$
- (2) $z < 0$

Does the integer k have at least three different positive prime factors?

- (1) $\frac{k}{15}$ is an integer.
- (2) $\frac{k}{10}$ is an integer.

In City X last April, was the average (arithmetic mean) daily high temperature greater than the median daily high temperature?

- (1) In City X last April, the sum of the 30 daily high temperatures was $2,160^\circ$.
- (2) In City X last April, 60 percent of the daily high temperatures were less than the average daily high temperature.

In a certain classroom, there are 80 books, of which 24 are fiction and 23 are written in Spanish. How many of the fiction books are written in Spanish?

- (1) Of the fiction books, there are 6 more that are not written in Spanish than are written in Spanish.
- (2) Of the books written in Spanish, there are 5 more nonfiction books than fiction books.

If p is the perimeter of rectangle Q , what is the value of p ?

- (1) Each diagonal of rectangle Q has length 10.
- (2) The area of rectangle Q is 48.