

GMAT quantitative reasoning sample paper

1. The population of City X increased from 2 million in the year 2000 to 2.5 million in 2015 and the gross domestic product of the city in 2000 was 38 less than that in 2015. What was the approximate percent change, rounded to the nearest integer if required, in the per capita gross domestic product of the city from 2000 to 2015?
22% decrease
22% increase
28% increase
53% increase
113% increase
2. Given that:
 $4m+n=20$; and $|n|\leq 20$
How many ordered pairs (m,n) exist in which m and n both are integers?
A Five
B Six
C Ten
D Eleven
E Forty-one
3. Company X sold 1,500 units of its product for \$9 each and 750 units for \$6 each. If the company's cost of producing each unit of the product was \$7, what was the company's profit or loss on the sale of 2,250 units?
A \$2250 loss
B \$750 loss
C No profit or loss
D \$2250 profit
E \$18,000 profit
4. If x is a positive integer such that $(x - 1)(x - 3)(x - 5)\dots(x - 93) < 0$, how many values can x take?
47
23
46
21
22
5. If m and n are non-zero integers, is $mn > nn$?
Statement 1: $|m| = n$
Statement 2: $m < n$
6. What is the remainder when the positive integer x is divided by 6?
Statement 1: When x is divided by 7, the remainder is 5.
Statement 2: When x is divided by 9, the remainder is 3.

7. A candy manufacturer decided to decrease the weight of each candy bar, while retaining the price. By how many cents did the per kilogram cost of candy change after the weight reduction?

Statement 1: The weight of each piece of candy bar is reduced by 9 grams.

Statement 2: The weight of each piece of candy bar was reduced by 9%

8. Consider a set $S = \{2, 4, 6, 8, x, y\}$ with distinct elements. If x and y are both prime numbers and $0 < x < 40$ and $0 < y < 40$, which of the following MUST be true?

I. The maximum possible range of the set is greater than 33.

II. The median can never be an even number.

III. If $y = 37$, the average of the set will be greater than the median.

I only

I and II only

I and III only

III only

I, II, and III