

GMAT quantitative reasoning sample paper

1. If x and y are integers and $|x - y| = 12$, what is the minimum possible value of xy ?

-12
-18
-24
-36
-48
2. Three positive integers a , b , and c are such that their average is 20 and $a \leq b \leq c$. If the median is $(a + 11)$, what is the least possible value of c ?

23
21
25
26
24
3. How many four-digit positive integers exist that contain the block 25 and are divisible by 75. (2250 and 2025 are two such numbers)?

90
63
34
87
62
4. Is $|x| > x$?

Statement 1: $x^2 + y^2 = 4$
Statement 2: $x^3 + y^2 = 0$
5. A movie hall sold tickets to one of its shows in two denominations, \$11 and \$7. A fourth of all those who bought a ticket also spent \$4 each on refreshments at the movie hall. If the total collection from tickets and refreshments for the show was \$124, how many \$7 tickets were sold? Note: The number of \$11 tickets sold is different from the number of \$7 tickets sold.

14
11
2
8
5
6. Rectangle ABCD is constructed in the xy -plane so that sides AB and CD are parallel to the x -axis. Both the x and y coordinates of all four vertices of the rectangle are integers. How many rectangles can be constructed if x and y coordinates satisfy the inequality $11 < x < 29$ and $5 \leq y \leq 13$?

153
153C4
4896
2448
5508

7. Susan invited 13 of her friends for her birthday party and created return gift hampers comprising one each of \$3, \$4, and \$5 gift certificates. One of her friends did not turn up and Susan decided to rework her gift hampers such that each of the 12 friends who turned up got \$13 worth gift certificates. How many gift hampers did not contain \$5 gift certificates in the new configuration?

5
2
9
3
7

8. 149 is a 3-digit positive integer, product of whose digits is $1 \times 4 \times 9 = 36$. How many 3-digit positive integers exist, product of whose digits is 36?

21
27
9
45
12