

GMAT quantitative reasoning sample paper

1. If a and b are positive integers, is $(a + b)$ prime?

Statement 1: $13a = 43b$

Statement 2: $8a = 15b$

2. What is the sum of all 3-digit positive integers such that all the digits of each of the number is even?

55,500

1300

44,400

247,275

54,400

3. What is the least number that when divided by 44 leaves a remainder 31, when divided by 56 leaves a remainder 43, and when divided by 32 leaves a remainder 19?

2464

2477

2451

616

603

4. What is the product of all the factors of the cube of a positive integer ' n ' if the product of all the factors of square of n is n^3 ?

n^4

n^6

n^9

n^5

Cannot be determined

5. If x and y are non-negative integers such that $4x + 7y = 68$, how many values are possible for $(x + y)$?

11

3

5

17

14

6. If a , b , and c are non-zero numbers, how many of these three numbers are positive numbers?

Statement 1: $a + b + c > 0$

Statement 2: The number of negative numbers is more than the number of positive numbers among these three numbers.

7. Dre has seven French tests this semester that is each scored out of a maximum of 100 points. If his average score on the first five tests was 87, what is the minimum score he could get on the sixth test and still be able to maintain his 87 average through all seven tests?
- A) 74
 - B) 77
 - C) 80
 - D) 85
 - E) 87
8. Scott began losing weight at a constant rate five months ago and today weighs 25 pounds less than he weighed then. Concurrently, his brother Karl has also been losing weight at three times the rate of Scott. If Karl weighed the same weight two months ago that Scott is today, and the two brothers weigh a combined 450 pounds today, what was Scott's weight five months ago?
- A) 215
 - B) 225
 - C) 260
 - D) 265
 - E) 285