

GMAT Data Sufficiency Practice Test 5

Question 1

Esther is giving Christmas presents to her family members. Each family member gets the same number of presents and no presents were leftover. If each family member gets at least one present, did each family member receive more than one present?

(1) Esther has forty Christmas presents to give out.

(2) If the number of family members were doubled, it would not be possible for each family member to get at least one present.

**A** Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

**B** Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

**C** BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

**D** EACH statement ALONE is sufficient.

**E** Statements (1) and (2) TOGETHER are NOT sufficient.

Question 2

A codebreaking device is made up of a rectangular box filled with  $x$  cylinders of ball bearings placed together such that the diameter of the bearings and the cylinders are equal, and the cylinders line up evenly,

touching, with no extra room inside the device. If the cylinders are the same height as the box, and the box is 18 inches long and 10 inches wide, what's the value of  $x$ ?

(1) 9 cylinders can line up along the length of the box.

(2) Each ball bearing has a radius of 1.

**A** Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

**B** Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

**C** BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

**D** EACH statement ALONE is sufficient.

**E** Statements (1) and (2) TOGETHER are NOT sufficient.

### Question 3

How many girls are members of both the Diving Team and the Swim Team?

(1) At a joint meeting of the Diving and Swim Teams, no members were absent and 18 girls were present.

(2) The Diving Team has 27 members, one-third of whom are girls, and the Swim Team has 24 members, half of whom are girls.

**A** Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

**B** Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

**C** BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

**D** EACH statement ALONE is sufficient.

**E** Statements (1) and (2) TOGETHER are NOT sufficient.

#### Question 5

J and K are positive numbers. Is  $J/K > 1$ ?

(1)  $JK < 1$

(2)  $J - K > 0$

**A** Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

**B** Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

**C** BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

**D** EACH statement ALONE is sufficient.

**E** Statements (1) and (2) TOGETHER are NOT sufficient.

### Question 6

Is  $x > 9$ ?

1.  $x^2 + 3x = 28$
2.  $9x = 5x - 28$

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

EACH statement ALONE is sufficient.

Statements (1) and (2) TOGETHER are NOT sufficient.

### Question 7

In a retail store, the average (arithmetic mean) sale for month M was  $d$  dollars. Was the average (arithmetic mean) sale for month J at least 20 percent higher than that for month M?

1. For month M, total revenue from sales was \$3,500.
2. For month J, total revenue from sales was \$6,000

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

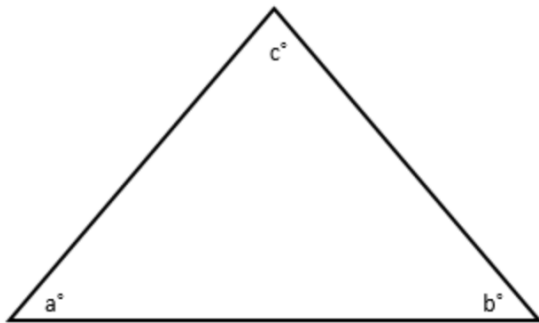
Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

EACH statement ALONE is sufficient.

Statements (1) and (2) TOGETHER are NOT sufficient.

#### Question 8



(NOTE: not drawn to scale)

Is  $a > 85$ ?

(1)  $b > 75$

(2)  $c > 95$

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

EACH statement ALONE is sufficient.

Statements (1) and (2) TOGETHER are NOT sufficient.

### Question 9

Is the area of circular region X greater than the area of circular region Y?

1. The circumference of circle X is greater than the circumference of circle Z, and the circumference of circle Z is less than the circumference of circle Y.
2. The radius of circle X is greater than the radius of circle Y.

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

EACH statement ALONE is sufficient.

Statements (1) and (2) TOGETHER are NOT sufficient.

### Question 10

An artist's portfolio consisting of 1,000 photos is divided into 20 subjects. After an extensive photo shoot, two more subjects are then added to the portfolio. Is

the average (arithmetic mean) number of photos in each subject greater than 55?

1. Each of the new subjects has fewer than 117 photos.
2. Each of the new subjects has more than 71 photos.

Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.

Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.

BOTH statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.

EACH statement ALONE is sufficient.

Statements (1) and (2) TOGETHER are NOT sufficient.