## Lecture Two

(GMAT数学考试题型)

# 本节课授课要点

GMAT数学考试题型

• 考试 PS题型——Problem Solving

• DS题型——Data Sufficiency

•机考,5选1单选题

•PS题型——Problem Solving

•DS题型——Data Sufficiency

## 本节课授课要点

GMAT数学考试题型

• 考试 PS题型——Problem Solving

• DS题型——Data Sufficiency

• Information required (Introduction or Background) (题干)

• Question (问题)

• Two statements labeled (I) and (2) (条件)

• Option (选项)

## DS例题

Tom and Jack are in a line to purchase tickets. (题干)

How many people are in the line? (问题)

- (1) There are 20 people behind Tom and 20 people in front of Jack.
- (2) There are 5 people between Tom and Jack.(条件)

#### DS题选项

- (A) Statement (I) 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) Statement (I) and (2) TOGETHER are NOT sufficient. (固定选项)

#### DS题选项

- •特点:固定选项
- 选项顺序必须烂熟于

心

- 平时练习
- •实战考试
- 举例 ——
  - •(I)(2)单独都充分选D

#### DS题答题步骤

• 从问句切入

- 问句类型
  - •数值计算——特殊疑问句 (吃的啥)
  - 判断是非——一般疑问句(吃了吗)

## DS题特殊疑问句

• 答案: 唯一确定实数解

• 充分: 能得到诸如0, −27, 4.567, √5, π 唯一解的Statement.

• 不充分: 能得到诸如  $x = \pm \sqrt{7}$ , |x| < 1 等两个或更多解的

Statement.

#### What is the value of x?

(1) 3x = 6

唯一解,充分

 $(2) x^2 = 4$ 

- 不唯一, 不充分
- (A) Statement (I) 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) Statement (I) and (2) TOGETHER are NOT sufficient.

答案:A

Tom and Jack are in a line to purchase tickets. How many people are in the line?

- (1) There are 20 people behind Tom and 20 people in front of Jack.
- (2) There are 5 people between Tom and Jack.
- (A) Statement (I) 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) Statement (1) and (2) TOGETHER are NOT sufficient.

答案:E

## DS题一般疑问句

- · 答案: 明确回答"YES"或者"NO".
- 充分:完全符合或者完全不符合Question提出的内容,即能理直气壮回答"YES"或者"NO",不留任何余地的Statement.
- 不充分:不完全符合Question提出的内容,即只能心虚回答"Yes, but..."或者"No, but..."的Statement.

#### Is x equal to 1?

$$(I) x^2 = I$$
 模棱两可,不充分

- (2) x<sup>2</sup> = 4 完全否定,充分
- (A) Statement (I) 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) Statement (I) and (2) TOGETHER are NOT sufficient.

答案:B

#### 区别DS题一般疑问句极端问法

- There are eight balls in the pocket. (题干)
- Question I: Are all the balls in the pocket red? (袋中所有的球都是红色的吗?)
  - 充分: "YES": 所有球都是红色的
  - 充分: "NO": 有任何一球是其它颜色的
- Question 2: Are there any red balls in the pocket? (袋中有红色的的球吗?)
  - 充分: "YES": 有任何一球是红色的
  - 充分: "NO": 所有球都不是红色的

- There are eight balls in the pocket. (题干)
- Question I: Are all the balls in the pocket red?
- Question 2: Are there any red balls in the pocket?
- Statement I: Three balls are removed; whose colors are brown, green, and red, respectively.
- Statement 2: Three balls are removed; whose colors are brown, green, and yellow, respectively.
- Statement 3: Three balls are removed; whose colors are red, red, and red, respectively.

	Question 1	Question 2
Statement 1	No充分	Yes充分
Statement 2	No充分	不充分
Statement 3	不充分	Yes充分

### DS题型思路总结

• 单独判断

- (I)充分(2)不充分

- (2)充分(I)不充分

- (I)充分(2)也充分

选A

选B

选D——EACH

• 合并判断——只有在单独判断都不充分的情况下

-(I)(2)合并在一起才充分

选C——BOTH

-(I)(2)合并在一起仍不充分

选E

#### DS题型诊断测试

Each person on a committee with 40 members voted for exactly one of 3 candidates, F, G, or H. Did Candidate F receive the most votes from the 40 votes cast?

- (1) Candidate F received 11 of the votes.
- (2) Candidate H received 14 of the votes.
- (A) Statement (I) 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) Statement (I) and (2) TOGETHER are NOT sufficient.

答案:A

# 回顾本节课授课要点

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# 预告下节课授课要点

基本数论

- 奇偶数
- 因数与质因数
- 最大公约数与最小公倍数
- 余数
- •小数、分数与科学计数法
- 比率与比例

# The End