

GMAT Data Sufficiency Practice Test 7

1. Is y an integer?

- A. y^3 is an integer
- B. $3y$ is an integer

2. Is the positive integer m divisible by 12?

- A. m is divisible by 6
- B. m is divisible by 8

3. If a salesman received a commission of 3% of the sales that he has booked in a month, what was the sales booked by the salesman in November 2003?

- A. The sales booked by the salesman in November 2003 minus the salesman's commission was \$245,000
- B. The selling price of the sales booked by the salesman in November 2003 was 125 percent of the original purchase price of \$225,000.

4. The cost of a certain phone call was \$0.75 for the first 3 minutes and \$0.20 for each additional minute after the first 3 minutes. Did the phone call last longer than 15 minutes?

- 1. The cost of the phone call was less than \$4.16
 - 2. The cost of the phone call was greater than \$3.35
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- 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.

5. Isabel received a \$3.50 per hour raise this week. If last week she worked 40 hours per week at her old pay rate, how many fewer hours can she work this week and still guarantee that she makes more this week than she did last week?

1. She made \$620 last week.
 2. Her raise was 20 percent greater than that of any of her coworkers.
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- 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.

6. The amount of bacteria in a culture after some t hours is given by the function $f(t) = pe^{kt}$ where p is a constant. What is the number of bacteria after 8 hours?

1. There were approximately 275 bacteria after 2 hours
 2. $k = 0.16$
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- 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.