

# GMAT<sup>Q&As</sup>

Graduate Management Admission Test (2022)

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**QUESTION 1**

If  $k$  is a constant, is 3 a root of  $x^2 + kx + 3 = 0$ ?

(1)  $k$  is a root of  $x^2 - 16 = 0$ .

(2) 1 is a root of  $x^2 + kx + 3 = 0$ .

- 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.

Correct Answer: B

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**QUESTION 2**

A certain investment of \$2,000 earns interest at a fixed annual rate, with interest paid monthly to the investor. If the monthly interest payment is \$10, what is the annual interest rate?

- A. 3.6%
- B. 4.8%
- C. 5%
- D. 5.5%
- E. 6%

Correct Answer: E

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**QUESTION 3**

Jan and 5 of his friends sold candy bars to raise money for their school trip. Jan sold 20 bars and each of his 5 friends sold at least one bar. Did Jan sell more candy bars than each of at least 3 of his friends?

(1)

The median of the number of bars sold by Jan's 5 friends is 18.

(2)

The average (arithmetic mean) of the number of bars sold by Jan's 5 friends is 12.

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

Correct Answer: D

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#### QUESTION 4

Sizable amounts of ice on the moon could provide future moon dwellers with drinking water and, if they split the water into its atomic components, hydrogen for fuel and oxygen for air. For a decade, scientists have argued about whether there is ice in the Shaddeton crater located at the moon's south pole. Radar signals reflected off the crater are consistent with one of two scenarios: either the crater contains ice or the crater has a highly rough surface. Many scientists believe that the Shackleton crater does contain ice because\_\_\_\_\_.

Which of the following, if true, most logically completes the argument above?

A. ice is known to exist on many planetary moons

B. radar signals reflected off the moon's dry, rough-surfaced Schomberger crater are not significantly different from the signals reflected off the Shackleton crater

C. mass spectrometry analysis indicates higher hydrogen atom concentrations in the Shackleton crater than are typical of rough lunar surfaces

D. the Shackleton crater is in permanent shadow and so its temperature is well below freezing

E. the moon has a few very rough areas, where its surface has not been sandblasted to a very fine dust

Correct Answer: D

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#### QUESTION 5

Berlandia's senate recently introduced two bills to address the problem of overburdened landfills: one would require that at least 40 percent by weight of the plastics sold in that country be biodegradable, the other that at least 80 percent by weight of plastics sold there be recycled into useful products. One legislator, however, has claimed that biodegradable plastics cannot be recycled into useful products, even if the biodegradables are mixed with other plastics.

The legislator's claim, if true, most strongly supports which of the following?

A. If both bills are passed, violations of at least one of the new laws will undoubtedly occur.

- B. If both bills are passed, the amount of nonbiodegradable plastics that reach Berlandia's landfills will soon increase over present levels.
- C. The cost of products made from recycled plastics will increase significantly unless neither bill is passed.
- D. If a plastic product contains a significant amount of recycled material, that product will probably not contain biodegradable materials as well.
- E. Eventually, only plastics that are biodegradable will be sold in Berlandia, whether or not both bills are passed.

Correct Answer: A

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