

GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

At the Rocket propulsion center, hybrid missiles are being tested 4 times a day and scramjet missiles are being tested 6 times a day. If at a certain day 186 tests were held, what is the difference between the numbers of hybrid missiles to scramjet missiles that were tested?

There are 37 missiles total in the Rocket propulsion center.

There are 19 scramjet missiles in the Rocket propulsion center.

Α.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

Β.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

Ε.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: D

Define H as the number of hybrid missiles and S as the number of scramjet missiles. The question lets us

set up the equation: 4H + 6S = 186. We need one more equation in order to answer the required question.

Statement (1) can be written as H + S = 37.

Statement (2) can be written as S = 19.

Either statement by itself is sufficient because it presents us with a second equation.

QUESTION 2

The East-17 pre-school is upgrading all of his classrooms by buying 46 computers, 6 printers and 5 fax machines. If a computer costs 4 times more than a printer and 2 times more than the fax machine, what percent of the cost of the entire purchase was the cost of one computer, 2 printers and 1 fax machine?



A. 1%.
B. 2%.
C. 3%.
D. 4%.
E. 5%.
Correct Answer: D
Let\\'s define the price of a printer as X, the computer costs 4X and the fax costs 2X. The total price of all the
merchandise is $(46 \times 4)X + 6X + 10X = 200X$. The specific group that was asked upon is worth $4X + 2X + 10X = 200X$.
2X = 8X.

The percentage of the price is (8/200) 4%.

QUESTION 3

V is the volume of a cylinder; the radius of the cylinder is 3.4. The height of the cylinder is 550% more than the radius. Which of the following is true?

A. 100

B. 300

C. 500

D. 700

E. 900

Correct Answer: D

You can start with the length. Length = 6.5 x 3.4 is approximately 22. The Volume of the cylinder is the

area of its face x its length.

Area of face = .

V is approximately $36 \times 22 = 792$ and the best answer is D.

QUESTION 4

Tom divided his cards between Tim and Din so each one received an odd amount of cards. The number of cards that Tim received multiplied by the number of cards that Din received is a number larger than 49 and smaller than 121. How many cards did Tom have in the first place?

A. 16.



B. 22.

C. 18.

- D. 14.
- E. 32.

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Correct Answer: C
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Answers A and E are disqualified immediately because those are even numbers that cannot be divided into two odd numbers. 22 is 11 + 11 but 11×11 is bigger than 121, the same idea with 14, therefore the answer is $18 \cdot 18 = 9 + 9 \cdot 9 \times 9 = 81$.

QUESTION 5

X years in the future, Zach will be Y years old. Z years in the future, Zach will be how old?

A. Z + X + Y

B. Z + X - Y

C. X-Y - Z

D. Y-X + Z

E. 2Z + X-Y

Correct Answer: D

Write the following equations: Zach + X = Y and Zach + Z =? Put Zach from the first equation and place it in the second one: Y - X + Z is the age in Z years.

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