



GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

Billy worked for three straight hours on his homework questions. If he solved 132 questions in the third hour, which was twice as many as he solved in the second hour, and three times as many questions as he solved in the first hour, how many questions did he solve total?

- A. 242
- B. 312
- C. 424
- D. 525
- E. 622

Correct Answer: A

$132 / 2$ are 66 questions in the second hour, $132 / 3$ are 44 questions in the third hour. $132 + 66 + 44 = 242$ questions.

QUESTION 2

In a rectangular coordinate system, what is the area of a triangle whose vertices have the coordinates (4, 0), (6, 3), and (6, -3)?

- A. 7.5
- B. 7
- C. 6.5
- D. 6
- E. 5.5

Correct Answer: D

First draw the x and y-axes, then plot the points and connect them. The length of the base is 6 units [from (6, 3) to (6, -3)] and the height is 2 units [from (6, 0) to (4, 0)].

Area of a triangle = (base \times height) / 2, so $(6 \times 2)/2$ is 6.

QUESTION 3

If it costs d dollars to make the first 100 copies of a poster and e dollars for each poster after that, what is the total cost of 125 posters?

- A. $25d + 100e$
- B. $100d + 25e$



- C. $125de$
- D. $d + 25e$
- E. $125/de$

Correct Answer: D

It costs d for the first 100 posters plus the cost of 25 additional posters. This translates to $d + 25e$, since e is the cost of each poster over the initial 100.

QUESTION 4

The length of a cube is three times its width and half of its height. If the volume of the Cube is 13,122 Cm cubed. What is the height of the cube?

- A. 49.
- B. 50.
- C. 54.
- D. 68.
- E. 81.

Correct Answer: C

Normalize each dimension to the width of the cube (W). The length is 3 times the width, therefore its $3W$, which is half of the height ($6W$). The volume of the cube is $13,122 = 6W \times 3W \times W = 18W^3$ $W^3 = 729$ $W =$

9. The height of the cube is six times the width, therefore its 54 meters.

QUESTION 5

X , Y , Z , and W are integers. The expression $X-Y-Z$ is even and the Expression $Y-Z-W$ is odd. If X is even what must be true?

- A. $Y-Z$ must be odd.
- B. W must be even.
- C. W must be odd.
- D. W must be even.
- E. Z must be odd

Correct Answer: C

The first expression is even and the second is odd, the only difference between the expressions is that the first expression has X and the second has W . So, if X is even W must be odd and the correct answer is C.



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