

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

The length of an edge of a cube is equal to half the height of a cylinder that has a volume of 160 cubic units. If the radius of the cylinder is 4 units, what is the surface area of the cube?

- A. 64 square units
- B. 96 square units
- C. 100 square units
- D. 125 square units
- E. 150 square units

Correct Answer: E

The volume of a cylinder is equal to r2h. The volume of the cylinder is 160 and its radius is 4. Therefore, the height of the cylinder is equal to:160 = (4)2h160 = 16hh = 10 The length of an edge of the cube is equal to half the height of the cylinder. The edge of the cubes 5 units. The surface area of a cube is equal to 6e2, where e is the length of an edge of the cube. The surface area of the cube = 6(5)2 = 6(25) = 150 square units.

QUESTION 2





In the diagram above of f(x), for how many values does f(x) = -1?

A. 0

B. 1

- C. 2
- D. 3
- E. 4

Correct Answer: C

The function f(x) is equal to-1 every time the graph off (x) crosses the line y = -1. The graph off(x)crosses y = -1 twice; therefore, there are two values for which f(x) = -1.



QUESTION 3



In the diagram above, the length of a side of square ABCD is four units. What is the area of the shaded region?

A. 4

B. 4 – ?

- C. 4 4?
- D. 16?
- E. 16 4?
- Correct Answer: B
- Explanation:

The area of a square is equal to S2, where s is the length of a side of the square. The area of ABCD is 42=

16 square units. The area of a circle is equal to ?r2, where r is the radius of the circle.

The diameter of the circle is four units. The radius of the circle is 4/2 = 2 square units. The area of the

circle is equal to ?(2)2= 4?. The shaded area is equal to one-fourth of the difference between the area of

the square and the area of the circle:1/4(16 - 4?) = 4 - ?.



QUESTION 4

There are seven vocalists, four guitarists, four drummers, and two bassists in Glen Oak\\'s music program, while there are five vocalists, eight guitarists, two drummers, and three bassists in Belmont\\'s music program. If a band comprises one vocalist, one guitarist, one drummer, and one bassist, how many more bands can be formed in Belmont?

A. 4

B. 10

C. 16

D. 18

E. 26

Correct Answer: C

Explanation: Multiply the numbers of vocalists, guitarists, drummers, and b assists in each town to find the number of bands that can be formed in each town. There are (7)(4)(4)(2) = 224 bands that can be formed in Glen Oak. There are (5)(8)(2)(3) = 240 bands that can be formed in Belmont; 240 - 224 = 16 more bands that can be formed in Belmont.

QUESTION 5

SIMULATION

If point A is at (-1, 2) and point B is at (11, -7), what is length of line AB?

A. 15

Correct Answer: A

Use the distance formula to find the distance

from (-1,	2) to (11,-7):
Distance	$\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Distance	$=\sqrt{(11-(-1))^2+((-7)-2)^2}$
Distance	$\sqrt{(12)^2 + (-9)^2}$
Distance	$\sqrt{144 + 81}$
Distance	$\sqrt{255}$
Distance	15 units



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