SAT2-MATHEMATICS$^{Q\&As}$

SAT Section 2: Mathematics

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QUESTION 1

The area of one square face of a rectangular prism is 121 square units. If the volume of the prism is 968

cubic units, what is the surface area of the prism?

A. 352 square units

B. 512 square units

C. 528 square units

D. 594 square units

E. 1,452 square units

Correct Answer: D

The area of a square is equal to the length of a side, or edge, of the square times itself. If the area of a square face is 121 square units, then the lengths of two edges of the prism are 11 units. The volume of the prism is 968 cubic units. The volume of prism is equal to, where is the length of the prism, w is the width of the prism, and h is the height of the prism. The length and width of the prism are both 11 units. The height is equal to: 968 = (11)(11) h, 968 = 121= 8. The prism has two square faces and four rectangular faces. The area of one square face is 121 square units. The area of one rectangular face is (8)(11) = 88 square units. Therefore, the total surface area of the prism is equal to: 2(121) + 4(88) = 242 + 352 = 594 square units.

QUESTION 2

$$\frac{m^2}{3} - 4m + 10$$

If m = 6, then the expression is equal to

A. –12.

B. –2.

C. 6.

D. 12.

E. 22.

Correct Answer: B

$$\frac{6^2}{3} - 4(6) + 10 = \frac{36}{3} - 24 + 10 = 12 - 14 = -2.$$

Substitute 6 for m:

QUESTION 3

The average of five consecutive odd integers is –21. What is the least of these integers?

A. –17

B. –19

C. –21

D. –23

E. –25

Correct Answer: E

Explanation:

If the average of five consecutive odd integers is –21, then the third integer must be –21. The two larger

integers are –19 and –17 and the two lesser integers are –23 and –25. –25 is the least of the five integers.

Remember, the more a number is negative, the less is its value.

QUESTION 4

The measures of the length, width, and height of a rectangular prism are in the ratio 2:6:5. If the volume of the prism is 1,620 mm3, what is the width of the prism?

A. 3 mm

B. 6 mm

C. 9 mm

D. 18 mm

E. 27 mm

Correct Answer: D

The volume of a prism is equal to lwh, where is the length of the prism, w is the width of the prism, and h is the height of the prism:

$$(2x)(6x)(5x)=1{,}620$$

$$60x^3 = 1{,}620$$

$$x^3 = 27$$

$$x = 3$$

The length of the prism is2(3) = 6 mm, the width of the prism is6(3) = 18mm, and the height of the prism is5(3)=15mm.

QUESTION 5

What is the tenth term of the pattern below?

$$\frac{10}{1{,}024}, \frac{9}{512}, \frac{8}{256}, \frac{7}{128},$$

A. $\dfrac{1}{2}$

B. $\dfrac{2}{9}$

C. $\dfrac{9}{2}$

D. $\dfrac{9}{4}$

E. 1

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: A

The denominator of each term in the pattern is equal to 2 raised to the power given in the numerator. The numerator decreases by 1 from one term to the next. Since 10 is the numerator of the first term, 10 ?9, or 1, will be the numerator of the tenth term. 21= 2 so the tenth term will be1/2.

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