

# SAT2-MATHEMATICS Q&As

## SAT Section 2: Mathematics

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#### **QUESTION 1**

If the height of a cylinder is doubled and the radius of the cylinder is halved, the volume of the cylinder

- A. remains the same.
- B. becomes twice as large.
- C. becomes half as large.
- D. becomes four times larger.
- E. becomes four times smaller.

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Correct Answer: C
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The volume of a cylinder is equal to r2h, where r is the radius of the cylinder and h is

$$\pi(\frac{1}{2})^{2}[2][1] = \pi (\frac{1}{4})^{2} = \frac{1}{2}\pi$$

the height. The volume of a cylinder with a radius of 1 and a height of 1 is . If the height is doubled and the radius is halved, then the volume becomes

The volume of the cylinder has become half as large.

#### **QUESTION 2**

#### SIMULATION

For any whole number x>0, how many elements are in the set that contains only the numbers that are multiples AND factors of x?

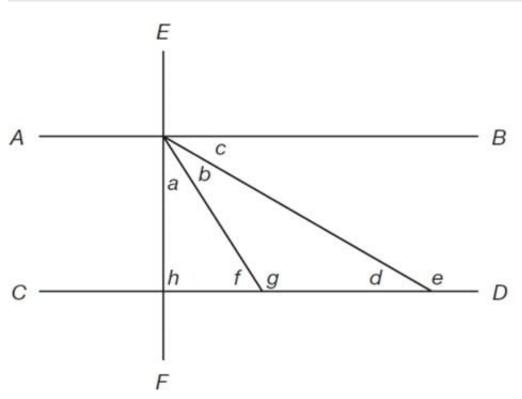
#### A. 1

Correct Answer: A

The largest factor of a positive, whole number is itself, and the smallest multiple of a positive, whole number is itself. Therefore, the set of only the factors and multiples of a positive, whole number contains one element -- the number itself.

#### **QUESTION 3**





In the diagram above, if line AB is parallel to line CD, and line EF is perpendicular to lines AB and CD, all of the following are true EXCEPT

- A. e = a + b + 90B. a + h + f = b + g + d. C. a + h = g. D. a + b + d = 90. E. c + b = g. A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E

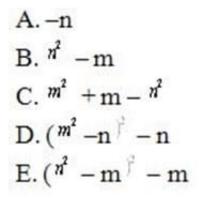
Since AB and CD are parallel lines cut by a transversal, angle f is equal to the sum of angles c and b. However, angle f and angle g are not equal -- they are supplementary. Therefore, the sum of angles c and b is also supplementary -- and



not equal -- tog.

#### **QUESTION 4**

The function m # n is equal to m2 - n. Which of the following is equivalent to m#(n # m)?



- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E
- Correct Answer: C

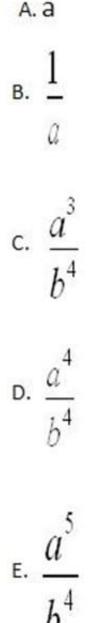
Explanation: M#n is a function definition. The problem is saying "m#n" is the same as "m2– n". If m#n isn2– n, then n#misn2– m. So, to find m#(n#m), replace (n#m) with the value of (n#m), which isn2– m:m#(n2 – m). Now, use the function definition again. The function definition says "take the value before the # symbol, square it, and subtract the value after the # symbol": m squared ism2minus the second term, (n2– m), is equal tom2-(n2– m) = m2- n2+ m.

#### **QUESTION 5**

The product of A. Option A

 $\left(\frac{a}{b}\right)^{2} \left(\frac{b}{a}\right)^{-2} \left(\frac{1}{a}\right)^{-1} = ?$ 





- B. Option B
- C. Option C
- D. Option D
- E. Option E
- Correct Answer: E

A fraction with a negative exponent can be rewritten as a fraction with a positive exponent by switching the numerator with the denominator.



 $\left(\frac{a}{b}\right)^{2} \left(\frac{b}{b}\right)^{-2} \left(\frac{1}{a}\right)^{-1} = \left(\frac{a}{b}\right)^{2} \left(\frac{a}{b}\right)^{2} \left(\frac{a}{1}\right)^{1} = \left(\frac{a^{2}}{b^{2}}\right) \left(\frac{a^{2}}{b^{2}}\right) \left(a\right) = \frac{a^{5}}{b^{4}}$ 

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