



SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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**QUESTION 1**

What is the next number in the series below? 3 16 6 12 12 8

- A. 4
- B. 15
- C. 20
- D. 24
- E. 32

Correct Answer: D

This series actually has two alternating sets of numbers. The first number is doubled, giving the third number. The second number has 4 subtracted from it, giving it the fourth number. Therefore, the blank space will be 12 doubled, or 24.

QUESTION 2

$$y = \frac{x+6}{x^2+7x-18}$$

The equation is undefined when

- A. -9.
- B. -2.
- C. -6.
- D. 0.
- E. 9.

Correct Answer: A

An equation is undefined when the value of a denominator in the equation is equal to zero. Set $x^2+7x+18$ equal to zero and factor the quadratic to find its roots:

$$\begin{aligned}x^2 + 7x - 18 &= 0 \\(x + 9)(x - 2) &= 0 \\x &= -9, x = 2\end{aligned}$$

**QUESTION 3**

What two values are not in the domain of

$$y = \frac{x^2 - 36}{x^2 - 9x - 36} ?$$

A. -3, 12

B. 3, -12

C. -6, 6

D. -6, 36

E. 9, 36

Correct Answer: A

QUESTION 4**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 5

A sack contains red, blue, and yellow marbles. The ratio of red marbles to blue marbles to yellow marbles is 3:4:8. If there are 24 yellow marbles in the sack, how many total marbles are in the sack?

A. 45

B. 48

C. 72

D. 96

E. 144



Correct Answer: A

The number of yellow marbles, 24, is $24/8=3$ times larger than the number of marbles given in the ratio. Multiply each number in the ratio by 3 to find the number of each color of marbles. There are $3(3) = 9$ red marbles and $4(3) = 12$ blue marbles. The total number of marbles in the sack is $24 + 9 + 12 = 45$.

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