

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1

The value of d is increased 50%, then decreased 50%. Compared to its original value, the value of d is now

- A. 25% smaller
- B. 25% larger
- C. 50% smaller
- D. 50% larger
- E. the same

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Correct Answer: A
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To increased by 50%, multiply d by 1.5:d= 1.5d. To find 50% of 1.5d, multiply 1.5d by 0.5: (1.5d)(0.5) = 0.75d. Compared to its original value, d is now 75% of what it was. The value of d is now 25% smaller.

QUESTION 2

What is the tenth term of the pattern below?





- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E

$$\left(\frac{2}{3}\right)^{1}$$

Each term in the pattern is equal to the fraction 2/3 raised to an exponent that is equal to the position of the term in the sequence. The first term in the sequence is equal to ,



the second term is equal to ,



and so on. Therefore, the tenth term in the sequence will be equal to

QUESTION 3

It takes six people eight hours to stuff 10,000 envelopes. How many people would be required to do the job in three hours?

- A. 4
- B. 12
- C. 16
- D. 18
- E. 24

Correct Answer: C

Six people working eight hours produce (6)(8) = 48 work-hours. The number of people required to produce 48 work-



hours in three hours is 48/3 = 16.

QUESTION 4

SIMULATION

$$\frac{b}{4}$$
+ 3a=11,

If 2a2 + b = 10 and ?what is the positive value of a?

A. 3

Correct Answer: A

Solve 2a2+b= 10 for b: b=10-2a2. Substitute (10-2a2) for b in the second equation and solve for a:

$$\frac{-10-2a^2}{4} + 3a = 11$$

-10+2a^2+12a=44
2a^2+12a-54=0
2a-6=0, a=3
a+9=0, a=-9

The positive value of a is 3

QUESTION 5





B.
$$b-a^2$$

C.
$$\frac{b}{a}-1$$

D.
$$\frac{b}{a^2} - 1$$

E.
$$\frac{b}{a^2}-a$$

A. Option A

- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: D



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