

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

SIMULATION

Stephanie buys almonds at the grocery store for \$1.00 per pound. If she buys 4 pounds of almonds and pays a 5% tax on her purchase, what is Stephanie\\'s total bill?

A. 4.20

Correct Answer: A

If one pound of almonds costs 1.00, then 4 pounds of almonds costs 4(1.00) = 4.00. If Stephanie pays a 5% tax, then she pays (4.00)(0.05) = 0.20 in tax. Her total bill is 4.00 + 0.20 = 4.20.

QUESTION 2



In the diagram above, angle A is congruent to angle BED, and angle C is congruent to angle D. If the ratio of the length



of AB to the length of EB is 5:1, and the area of triangle BED = 5 + 10, what is area of triangle ABC?

- A. 5a2+ 10
- B. 25a2+ 50
- C. 25a2+ 100
- D. 125a2+ 250
- E. cannot be determined

Correct Answer: D



Triangles ABC and BED have two pairs of congruent angles. Therefore, the third pair of angles must be congruent, which makes these triangles similar. If the area of the smaller triangle, BED, is equal to , then the area of the larger triangle, ABC, is equal to



or 25 .

The area of triangle ABC is 25 times larger than the area of triangle BED. Multiply the area of triangle BED

by 25: 25(5a2+ 10) = 125a2+ 250.

QUESTION 3

SIMULATION

If 6x + 9y - 15 = -6, what is the value of -2x - 3y + 5?

A. 2

Correct Answer: A

The first expression, 6x + 9y - 15, is -3 times the second expression, -2x - 3y + 5 (multiply each term in the second expression by -3 and you'd get the first expression). Therefore, the value of the first expression, -6, is -3 times the value of the second expression. So, you can find the value of the second expression by dividing the value of the first expression by -3: The value of is just-1/3 times the value of since itself is-1/3times 6x + 9y - 15.





-2x-3y+5(2)

QUESTION 4

Line AC is a diagonal of square ABCD. What is the sine of angle ACB?



E. cannot be determined

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

Correct Answer: C

A square has four right (90-degree) angles. The diagonals of a square bisect its angles. Diagonal AC bisects C, forming two 45-degree angles, angle ACB and angle ACD. The sine of 45 degrees is equal to 2/2

QUESTION 5



p<0, q>0, and r>p

If , then which of the following must be true?

A. *p*+*r*>0
B. *r p*<*r q*C. *pr*<*r q*D. *r*+*q*>*q*

E. p+r < r+q

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

p+r < r+q.

p<0 and q>0, then p<q. Since p<q, p

If plus any value will be less than that same value (whether positive or negative). Therefore,

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