

SAT2-MATHEMATICS Q&As

SAT Section 2: Mathematics

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QUESTION 1



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 2

SIMULATION

 $j @k = (\frac{j}{k})^{j}$. = If j @k =

The function

-8 when j = -3 j = -3, what is the value of k?

A. 6

Correct Answer: A

j@k = -8 when j = -3 then:



$$-8 = \left(\begin{array}{c} -3 \\ k \end{array}\right)^3$$
$$-8 = \left(\begin{array}{c} k \\ -3 \end{array}\right)^3$$
$$-8 = \frac{k^3}{27}$$
$$216 = k^3$$
$$k = 6$$

QUESTION 3

$$a < \frac{43}{3x} < b$$
, and $a = 4$ and $b = 8$,

If which of the following could be true?

A. x < aB. x > bC. a < x < bD. 4 < x < 8E. none of the above

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



E. Option E

Correct Answer: A

If a = 4, x could be less than a. For example, x could be

3: $4 < \frac{43}{3(3)} < 8$, $4 < \frac{43}{9} < 8$, $4 < 4\frac{7}{9} < 8$.

Although x