

SAT2-MATHEMATICS^{Q&As}

SAT Section 2: Mathematics

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QUESTION 1

What two values are not in the domain of



- A. -3, 12
- B. 3, -12
- C. –6, 6
- D. –6, 36
- E. 9, 36

Correct Answer: A

QUESTION 2

SIMULATION There are seven students on the trivia team. Mr. Randall must choose four students to participate in the trivia challenge. How many different groups of four students can Mr. Randall form?

A. 35

Correct Answer: A

The order of the four students chosen does not matter. This is a "seven-choose-four" combination problem -- be sure to divide to avoid counting duplicates:

$$\frac{(7)(6)(5)(4)}{(4)(3)(2)(1)} = \frac{840}{24} = 35$$

There are 35 different groups of four students that Mr. Randall could form.

QUESTION 3

If 30% of r is equal to 75% of s, what is 50% of s if r = 30?

A. 4.5



B. 6
C. 9
D. 12
E. 15
Correct Answer: B
If $r = 30$, 30% of $r = (0.30)(3) = 9$. 9 is equal to 75% of s. If $0.75s = 9$, then $s = 12$. 50% of $s = (0.50)(12) = 0.50$
6.

QUESTION 4

The length of a rectangle is one greater than three times its width. If the perimeter of the rectangle is 26 feet, what is the area of the rectangle?

A. 13 ft2

B. 24 ft2

C. 30 ft2

D. 78 ft2

E. 100 ft2

Correct Answer: C

The perimeter of a rectangle is equal to 2l+2w, where l is the length of the rectangle and w is the width of the rectangle. If the length is one greater than three times the width, then set the width equal to x and set the length equal to 3x+1:

$$2(3x+1)+2(x)=26$$

 $6x+2+2x=26$
 $8x=24$
 $x=3$

The width of the rectangle is 3 ft and the length of the rectangle is 10 ft. The area of a rectangle is equal to lw;(10 ft)(3 ft) = 30 ft2.

QUESTION 5

If 3x-y=2 and 2y-3x-8, which of the following is equal to x/y?





D. 4

E. 6

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

Correct Answer: B

$$3x-y=2$$
 for $y: -y=-3x+2$, $y=3x-2$

Solve

Substitute 3x-2 for y in the second equation and solve for x:

$$2|3x-2|-3x = 86x-4 - 3x = 83x-4 = 83x = 12x = 4$$

Substitute the value of x into the first equation to find the value of y:



$$3(4) - y = 2$$

$$12 - y = 2$$

$$y = 10$$

$$\frac{x}{y} = \frac{4}{10} = \frac{2}{5}$$

x3+ 7x2 -8x

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