



# SAT2-MATHEMATICS<sup>Q&As</sup>

SAT Section 2: Mathematics

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### QUESTION 1

$$\frac{3}{2+x} = \frac{x-5}{2x}$$

If the expression then one possible value of  $x$  could be

- A. -1
- B. -12
- C. -5
- D. 1
- E. 2

Correct Answer: A

Cross multiply and solve for  $x$ :

$$3(2x) = (2+x)(x-5)$$

$$6x = x^2 - 3x - 10$$

$$x^2 - 9x - 10 = 0$$

$$(x-10)(x+1) = 0$$

$$x = 10, x = -1$$

### QUESTION 2

Melissa runs the 50-yard dash five times, with times of 5.4 seconds, 5.6 seconds, 5.4 seconds, 6.3 seconds, and 5.3 seconds. If she runs a sixth dash, which of the following would change the mean and mode of her scores, but not the median?

- A. 5.3 seconds
- B. 5.4 seconds
- C. 5.5 seconds
- D. 5.6 seconds
- E. 6.3 seconds

Correct Answer: A



Melissa's mean time for the first five dashes is

$$\frac{5.4 + 5.6 + 5.4 + 6.3 + 5.3}{5} = \frac{28}{5} = 5.6.$$

Her times, in order from least to greatest, are: 5.3, 5.4, 5.4, 5.6, and 6.3. The middle score, or median, is

5.4. The number that appears most often, the mode, is 5.4. A score of 5.3 means that the mean will decrease and that the mode will no longer be 5.4 alone. The mode will now be 5.3 and 5.4. The median, however, will remain 5.4.

### QUESTION 3

$$\frac{5}{16} < x < \frac{9}{20},$$

A.  $\frac{1}{3}$

B.  $\frac{2}{5}$

C.  $\frac{3}{8}$

D.  $\frac{3}{7}$

E.  $\frac{4}{9}$

If 0.34

A. Option A

B. Option B

C. Option C



D. Option D

E. Option E

Correct Answer: C

$5/16 = 0.3125$  and  $9/20 = 0.45$ ;  $3/8 = 0.375$  which is between 0.34 and 0.40, and between 0.3125 and 0.45.

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#### QUESTION 4

A bank contains one penny, two quarters, four nickels, and three dimes. What is the probability of selecting a coin that is worth more than five cents but less than 30 cents?

A.  $\frac{1}{5}$

B.  $\frac{1}{4}$

C.  $\frac{1}{2}$

D.  $\frac{7}{10}$

E.  $\frac{9}{10}$

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: C

$$\frac{5}{10} \text{ or } \frac{1}{2}$$



There are ten coins in the bank (1 penny + 2 quarters + 4 nickels + 3 dimes). The two quarters and three dimes are each worth more than five cents but less than 30 cents, so the probability of selecting one of these coins is

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**QUESTION 5**

The volume of a glass of water placed in the sun decreases by 20%. If there are 240 mL of water in the glass now, what was the original volume of water in the glass?

- A. 192ml
- B. 260ml
- C. 288ml
- D. 300ml
- E. 360ml

Correct Answer: D

The original volume of water,  $x$ , minus 20% of  $x$ ,  $0.20x$ , is equal to the current volume of water, 240ml:

$$x - 0.20x = 240 \text{ ml}$$

$$0.8x = 240 \text{ ml}$$

$$x = 300 \text{ ml}$$

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