



# PRAXIS-MATHEMATICS-SECTION<sup>Q&As</sup>

Pre-Professional Skills Test (PPST) - Mathematics Section





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### QUESTION 1

John's sock drawer contains 4 pairs of green socks, 7 pairs of black socks, and 7 pairs of red socks. If

John reaches into the drawer at random, what are his chances of NOT selecting a pair of green socks?

- A.  $\frac{1}{3}$
- B.  $\frac{7}{9}$
- C.  $\frac{2}{5}$
- D.  $\frac{10}{18}$
- E.  $\frac{3}{4}$

Correct Answer: B

Explanation: 14 of the 18 pairs of socks are not green; the fraction  $\frac{14}{18}$  can be simplified as  $\frac{7}{9}$ .

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### QUESTION 2

On a real number line,  $x = -4$  and  $y = 7$ . What is the length of the line XY?

- A. 11
- B. 3
- C. - 11
- D. 7
- E. 10

Correct Answer: A

Explanation: Measure the length of the line by adding the respective distances of each value from zero.

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### QUESTION 3

John will be  $x$  in 7 years. How old was he last year?

- A.  $x + 7$
- B.  $1 - x - 7$
- C.  $x + 8$
- D.  $x - 8$
- E.  $7x$



Correct Answer: D

Explanation: The target age can be found by subtracting first seven and then one year from x.

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#### QUESTION 4

Don gets paid \$9 an hour, but if he works more than 30 hours in a week his rate of pay is increased by  $\frac{1}{2}$ . How much would Don get paid for a 38-hour work week?

- A. \$342
- B. \$390
- C. \$367
- D. \$378
- E. \$365

Correct Answer: D

Explanation: The problem can be solved with the following expression:  $30(9) + 8(9 \times 1.5)$

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#### QUESTION 5

Identify the missing term in the following geometric progression: 16, -4, 1, -1/4, ...

- A. 1/8
- B. 2/6
- C. 1/16
- D. - 2/6
- E. 1/3

Correct Answer: C

Explanation: Each successive term is found by dividing the previous term by -4.

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