

# PCAT-SECTION3<sup>Q&As</sup>

Pharmacy College Admission Test - Quantitative

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#### **QUESTION 1**

What is the probability of selecting a face card of a spade suit from two standard decks of cards?

A. 3/52

B. 6/52

C. 6/104

D. 46/104

Correct Answer: C

You are asked to determine the probability of randomly selecting one face card (king, queen, or jack) of a spade suit from two standard decks of cards. Because there are two decks of cards, a single card can be selected from two decks inn= 104 different ways. Since there are 3 face cards of a spade suit in one deck of cards, such a card can be drawn from the two decks ins= 6 different ways. Thus, the probability that the selected card is a face card of a spade suit is:p=s/n=6/104

#### **QUESTION 2**

A student obtained an average of 86 for a series of seven assignments. Six of the grades were 85, 78, 83, 91, 89, and 86. The grade of the seventh assignment is:

A. 74

B. 86

C. 90

D. 98

Correct Answer: C

From the information in the problem,

$$Average = \frac{Sum of Terms}{Number of Terms}$$

$$86 = \frac{85 + 78 + 83 + 91 + 89 + 86 + x}{7} = \frac{512 + x}{7}$$
$$x = 86 \times 7 - 512 = 602 - 512 = 90.$$

#### **QUESTION 3**



The three most commonly used temperature scales are Fahrenheit (°F), Celsius (°C), and Kelvin (K). They are based on the freezing point and boiling point of water as shown below.

Temperature Scale	FreezingPoint of Water	Boiling Point of Water
Fahrenheit (°F)	32	212
Celsius (°C)	0	100
Kelvin (K)	273	373

The formula for temperature conversion between the Fahrenheit and Celsius scales is

$$T_{\rm F} = \frac{9}{5}T_{\rm C} + 32$$

What is the linear equation relating temperature in Fahrenheit to temperature in Kelvin?

A. 
$$T_F = -\frac{9}{5}T_K + 459.4$$
  
B.  $T_F = \frac{9}{5}T_K + 459.4$   
C.  $T_F = \frac{9}{5}T_K + 459.4$   
D.  $T_F = \frac{9}{5}T_K - 459.4$ 

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

Correct Answer: D

#### **QUESTION 4**

What is the probability of randomly selecting a ten card from a standard deck of cards?

A. 1/52

B. 1/13

- C. 12/13
- D. 51/12
- Correct Answer: B



To determine the probability that a selected card is a ten, you should first note that a card can be selected from a deck inn= 52 different ways. Since there are four ten cards, one ten for each of the four suits, a ten can be drawn from the deck ins= 4 different ways. Thus, the probability that the selected card is a ten is:

$$p = \frac{s}{n} = \frac{4}{52} = \frac{1}{13}.$$

#### **QUESTION 5**

If and $x/y = 0$ and $x=04$ , then what is the suff $x + y$ :
A. 56
B. 64
C. 72
D. 81
Correct Answer: C
From the first equation, multiply both sides by yresulting in $x = 8y$ .
Becausex= 64, you can write
64 = 8y
Y=8
Substituting the given information regardingxandyinto its sum yields:
x+y= 64 + 8 = 72.

If and x/v = 8 and x=64, then what is the sum x + v?

#### **QUESTION 6**

What is the sum of the following polynomials? 5x + 3xy 6y2, 9xy + 7y2 4x and 8y2 + 7x + 12xy

A. 12x+ 15xy 14y2

B. x+ 9xy 6y2

C. 8x+ 24xy 7y2

D. 5x+ 12xy+ 7y2

Correct Answer: C



#### **QUESTION 7**

Solve for x: 10 + 5x2 = 135 A. ±2 B. ±5 C. ±10 D. ±25 Correct Answer: B

#### **QUESTION 8**

Chemistry students performed nine volume measurements of a solution during a lab and obtained the

following results:

{2.4mL, 3.2mL, 3.7mL, 3.7mL, 4.5mL, 6.8mL, 7.3mL, 8.1mL, 12.2mL}

What is the median of the data set?

A. 3.7mL

B. 4.5mL

C. 5.8mL

D. 9.8mL

Correct Answer: B

The median is the middle or center value of the data set arranged in ascending numerical order, or 4.5mL.

#### **QUESTION 9**

What are the roots of the quadratic equation  $3x2 \times 10 = 0$ ?

A. 
$$x = \sqrt{2}, -\frac{5}{3}$$
 B.  $x = 2, -\sqrt{\frac{5}{3}}$  C.  $x = -2, \sqrt{\frac{5}{3}}$  D.  $x = 2, -\frac{5}{3}$ 

A. Option A

B. Option B



- C. Option C
- D. Option D

Correct Answer: D

#### **QUESTION 10**

Evaluate the following definite integral:



#### A. 4920

B. 2560

C. 2179

D. 1659

Correct Answer: A

#### **QUESTION 11**

What is the probability that two cards drawn from a deck of cards are face cards (king, queen, or jack) of any suit if the first card drawn is replaced before the second card is drawn?

- A. 9/169
- B. 1/16
- C. 3/13
- D. 1/26

Correct Answer: A

#### **QUESTION 12**

Solve for x: x2 12 x=36



- A. 2
- B. 3
- C. 4
- D. 6

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Correct Answer: D
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The first thing to do in solving the equationx2 12x=36 forxis to rewrite the equation by adding 36 to both sides and then to express the equation in terms of factors: x2 12x+36 = 0 (x6)  $\cdot$  (x 6) = 0 Solving the equation forxyieldsx= 6.

#### **QUESTION 13**

Evaluate the following indefinite integral:

 $\int 10t^4 dt$ 

A. 
$$2t^5 + C$$
 B.  $10t^5 + C$  C.  $\frac{2}{5}t^5 + C$  D.  $\frac{10}{3}t^5 + C$ 

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

Correct Answer: A

Evaluatingthese integral yields:

$$\int 10t^4 dt = \frac{10}{5}t^5 = 2t^5 + C.$$

#### **QUESTION 14**

 $1/3 \div 5/9 =$ 

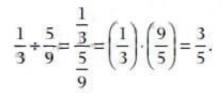
A. $\frac{3}{5}$	<b>B.</b> $\frac{5}{3}$	C. $\frac{5}{9}$	<b>D.</b> $\frac{1}{9}$
5	3	9	9

#### A. Option A



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

The quotient of the two fractions can be found by writing the fractions as:



#### **QUESTION 15**

What are the roots of the equation  $x^2 7x 18 = 0$ ?

A. 4.5, 1

- B. 2, 4.5
- C. 3.5, 8
- D. 1, 4.5
- Correct Answer: A

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