



# Certification Exams

PCAT Exam

Pharmacy College Admission Test

Exam Latest Version: 6.0

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## Question 1. (Single Select)

Image

A woman wants to stack two small bookcases beneath a window that is  $26\frac{1}{2}$  inches from the floor. The larger bookcase is  $14\frac{1}{2}$  inches tall. The other bookcase is  $8\frac{3}{4}$  inches tall. How tall will the two bookcases be when they are stacked together?

- a. 12 inches tall
- b.  $23\frac{3}{4}$  inches tall
- c.  $35\frac{1}{4}$  inches tall
- d. 41 inches tall

A: Option A

B: Option B

C: Option D

D: Option C

**Correct Answer: B**

**Explanation:**

Add to solve. The height of the window from the floor is not needed in this equation. It is extra information. You only need to add the heights of the two bookcases. Change the fractions so that they have a common denominator. After you add, simplify the fraction.

$$\begin{aligned} 14\frac{1}{2} + 8\frac{3}{4} &= 14\frac{2}{4} + 8\frac{3}{4} \\ &= 22\frac{5}{4} \\ &= 23\frac{1}{4} \end{aligned}$$

**Question 2. (Single Select)**

Image

**What is the simplest way to write the following expression?**

$$5x - 2y + 4x + y$$

- a.  $9x - y$
- b.  $9x - 3y$
- c.  $9x + 3y$
- d.  $x - y$

- A: Option D
- B: Option C
- C: Option B
- D: Option A

**Correct Answer: A**

**Explanation:**

Add the coefficients of the 'x-terms' together as follows:  $5x + 4x = 9x$

Add the coefficients of the 'y-terms' as follows:  $-2y + y = -y$

Put the x- and y-terms back into the same equation:  $9x - y$ .

### Question 3. (Single Select)

Image

**Find the sum.**

$$(3x^2 + x + 3) + 8x^2 + 5x + 16$$

- a.  $7x^2 + 29x^2$
- b.  $11x^2 + 6x + 19$
- c.  $30x + 19$
- d.  $(3x^2 + 3x) + 13x^2 + 16$

A: Option A

B: Option D

C: Option C

D: Option B

**Correct Answer: B**

**Explanation:**

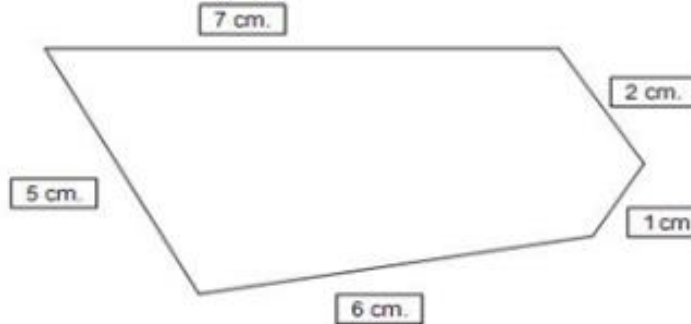
To solve, line up the like terms, as follows:

$$\begin{array}{r} 3x^2 + x + 3 \\ + 8x^2 + 5x + 16 \\ \hline 11x^2 + 6x + 19 \end{array}$$

#### Question 4. (Single Select)

Image

What is the perimeter of the following figure?



- a. 15 cm
- b. 18 cm
- c. 21 cm
- d. 36 cm

- A: Option A
- B: Option D
- C: Option C
- D: Option B

**Correct Answer: C**

**Explanation:**

To find perimeter, add the sides.  $7\text{ cm} + 2\text{ cm} + 1\text{ cm} + 6\text{ cm} + 5\text{ cm} = 21\text{ cm}$

#### Question 5. (Single Select)

To begin making her soup, Jennifer added four containers of chicken broth with 1 liter of water into the pot. Each container of chicken broth contains 410 milliliters. How much liquid is in the pot?

- A: 1.64 liters

- B: 6.12 liters
- C: 2.64 liters
- D: 5.44 liters

**Correct Answer: B**

**Explanation:**

Since there are 4 containers of broth:  $410 \text{ ml} \times 4 = 1640 \text{ ml}$

Change to liters:  $1640 \text{ mL} \times \frac{1 \text{ L}}{1000 \text{ mL}} = 1.64 \text{ L}$

Add the liter of water that was already in the pot:  $1.64 \text{ L} + 1 \text{ L} = 2.64 \text{ L}$



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