

# What are Body Cavities?

## Worksheet

Body cavities are internal spaces that contain and protect organs. The two main groups are the dorsal cavity (cranial and spinal cavities) and the ventral cavity (thoracic and abdominopelvic cavities).

## Questions

1. Which cavity houses the brain and spinal cord?

- A) Ventral cavity
- B) Thoracic cavity
- C) Dorsal cavity
- D) Abdominopelvic cavity

2. What structure separates the thoracic and abdominopelvic cavities?

- A) The sternum
- B) The diaphragm
- C) The vertebrae
- D) The skull

3. The heart and lungs are located in which cavity?

- A) Cranial cavity
- B) Spinal cavity
- C) Thoracic cavity
- D) Abdominopelvic cavity

4. Which pair correctly groups the body cavities?

- A) Dorsal = thoracic + abdominopelvic; Ventral = cranial + spinal
- B) Dorsal = cranial + spinal; Ventral = thoracic + abdominopelvic
- C) Dorsal = cranial + thoracic; Ventral = spinal + abdominopelvic
- D) There is only one body cavity

5. An organ sits inside the skull, protected by bone. Which cavity contains it?

6. The lungs and heart are separated from the stomach and intestines by a muscular sheet. Name the cavities on each side.

7. The spinal cord runs through a canal formed by the vertebrae. Which cavity is this?

8. Define: What is the dorsal cavity?

9. Define: What is the ventral cavity?

10. Define: What separates the thoracic and abdominopelvic cavities?

## Answer Key

1. C) Dorsal cavity - The dorsal cavity includes the cranial cavity (brain) and spinal cavity (spinal cord).
2. B) The diaphragm - The diaphragm is the muscular sheet dividing thoracic from abdominopelvic cavity.
3. C) Thoracic cavity - The thoracic cavity, part of the ventral cavity, contains the heart and lungs.
4. B) Dorsal = cranial + spinal; Ventral = thoracic + abdominopelvic - Dorsal groups cranial+spinal; ventral groups thoracic+abdominopelvic.
5. The skull encloses the brain. The cranial cavity is the space inside the skull. Therefore the brain is located in the cranial cavity.
6. Above the muscular sheet (diaphragm) lies the thoracic cavity, containing the heart and lungs. Below the diaphragm lies the abdominopelvic cavity, containing the stomach and intestines. Therefore the heart/lungs are in the thoracic cavity, and stomach/intestines in the abdominopelvic cavity.
7. The vertebrae form a bony canal running down the back. This canal is the spinal (vertebral) cavity, part of the dorsal cavity group. Therefore the spinal cord lies within the spinal cavity.
8. The body cavity along the back, containing the cranial cavity (brain) and spinal cavity (spinal cord).
9. The body cavity along the front, containing the thoracic and abdominopelvic cavities.
10. The diaphragm, a dome-shaped muscle.

### **Bounlu**

All cards, step-by-step solutions and an AI tutor are in the Notek app.  
Promy turns exam dates into automatic reminders.