

Bones Of The Hand Quiz Answer Key PDF

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How do hand bones contribute to the overall dexterity and functionality of the human hand?

Hand bones contribute to dexterity and functionality by forming a flexible framework that supports intricate movements, enabling actions such as gripping, pinching, and fine motor skills.

Describe the differences in the number and arrangement of phalanges between the fingers and the thumb.

Fingers have three phalanges (proximal, middle, distal), while the thumb has two phalanges (proximal, distal).

Which finger has only two phalanges?

- A. Index finger
- B. Middle finger
- C. Ring finger
- D. Thumb ✓**

Compare the structure of human hand bones with those of another primate and discuss any evolutionary significance.

The structure of human hand bones includes a highly developed opposable thumb and a unique arrangement of metacarpals and phalanges that allow for a greater range of motion and precision grip compared to chimpanzees, whose hand bones are adapted for climbing and knuckle-walking.

Which condition involves compression of nerves in the wrist?

- A. Arthritis
- B. Osteoporosis
- C. Carpal Tunnel Syndrome ✓**

D. tendonitis

How many bones are there in the human hand?

- A. 24
- B. 27 ✓**
- C. 30
- D. 33

How many metacarpal bones are in one hand?

- A. 4
- B. 5 ✓**
- C. 6
- D. 7

What are the components of a metacarpal bone? (Select all that apply)

- A. Base ✓**
- B. Shaft ✓**
- C. Head ✓**
- D. Neck

What are the common symptoms and causes of carpal tunnel syndrome?

Common symptoms include numbness, tingling, and weakness in the hand and fingers, while causes can include repetitive hand movements, wrist injuries, and conditions like diabetes or arthritis.

Which of the following conditions can affect the hand bones? (Select all that apply)

- A. Fractures ✓**
- B. Arthritis ✓**
- C. Diabetes
- D. Carpal Tunnel Syndrome ✓**

What functions do the bones of the hand support? (Select all that apply)

- A. Grasp ✓**
- B. Running
- C. Pinching ✓**
- D. Writing ✓**

Explain the significance of the arrangement of carpal bones in the wrist.

The carpal bones are arranged in two rows of four bones each, forming a flexible structure that supports the hand's dexterity and strength.

Discuss how the structure of the metacarpal bones contributes to hand function.

The structure of the metacarpal bones, which are long and slender with a base, shaft, and head, allows for both mobility and stability in the hand, facilitating complex movements and grip strength necessary for effective hand function.

Which bone is NOT a part of the carpal bones?

- A. Scaphoid
- B. Lunate
- C. Femur ✓**
- D. Pisiform

Which bones are directly involved in hand dexterity? (Select all that apply)

- A. Phalanges ✓**
- B. Metacarpals ✓**
- C. Carpal ✓**
- D. tibia

Which of the following are carpal bones? (Select all that apply)

- A. Scaphoid ✓**
- B. Radius
- C. Lunate ✓**

D. Pisiform ✓

Which bones are involved in forming the wrist joint? (Select all that apply)

A. Radius ✓

B. Ulna ✓

C. Carpal bones ✓

D. Metacarpal bones

What is the primary function of the phalanges?

A. Support the wrist

B. Enable finger movement ✓

C. Protect the palm

D. Connect to the forearm

Which carpal bone is most commonly fractured?

A. Trapezium

B. Scaphoid ✓

C. Capitate

D. Hamate

What is the primary role of the metacarpal bones?

A. Form the wrist

B. Connect fingers to the wrist ✓

C. Protect the forearm

D. Support the thumb