

### Warm-Up: Bone Markings & Bone Fractures (p 142-147)

#### Short Answer

1. A round or oval hole through a bone, which contains blood vessels and/or nerves, is called a \_\_\_\_\_.
2. A large rounded projection on a bone is called a \_\_\_\_\_.
3. A fracture where the bone breaks cleanly but does not penetrate the skin is termed a \_\_\_\_\_ fracture.
4. The skull, vertebral column, and thoracic cage form the \_\_\_\_\_ skeleton.

#### Multiple Choice

*Identify the choice that best completes the statement or answers the question.*

- \_\_\_\_\_ 5. A shallow, basin-like depression in a bone often serving as an articular surface is a:  
Ⓐ sinus Ⓓ foramen  
Ⓑ meatus Ⓔ groove  
Ⓒ fossa
- \_\_\_\_\_ 6. A round or oval opening through a bone is a:  
Ⓐ facet Ⓓ fissure  
Ⓑ fossa Ⓔ trochanter  
Ⓒ foramen
- \_\_\_\_\_ 7. Which of the following bones is NOT considered part of the appendicular skeleton:  
Ⓐ femur Ⓓ metatarsals  
Ⓑ sternum Ⓔ scapula  
Ⓒ radius
- \_\_\_\_\_ 8. There are four stages in the healing of a bone fracture. Which of the following best illustrates the sequence of these stages:  
1. bony callus formation      3. fibrocartilage callus formation  
2. bone remodeling      4. hematoma formation
- Ⓐ 4, 3, 2, 1      Ⓓ 1, 3, 4, 2  
Ⓑ 4, 3, 1, 2      Ⓔ 1, 3, 2, 4  
Ⓒ 1, 2, 3, 4

- \_\_\_\_\_ 9. A compound fracture can be described as when:
- Ⓐ the bone is crushed
  - Ⓑ the broken bone ends are forced into each other
  - Ⓒ the broken bone is exposed to the outside
  - Ⓓ the bone is broken into many fragments
  - Ⓔ adjacent bones fracture simultaneously
- \_\_\_\_\_ 10. A bone fracture where the bone is broken into many fragments is a:
- Ⓐ compound fracture
  - Ⓑ simple fracture
  - Ⓒ comminuted fracture
  - Ⓓ compression fracture
  - Ⓔ greenstick fracture
- \_\_\_\_\_ 11. A fracture that is common in children, whose bones have relatively more collagen in their matrix and are more flexible than those of adults, is a(n):
- Ⓐ impacted fracture
  - Ⓑ spiral fracture
  - Ⓒ depressed fracture
  - Ⓓ greenstick fracture
  - Ⓔ open fracture
- \_\_\_\_\_ 12. A fracture that is common in osteoporotic bones is a(n):
- Ⓐ impacted fracture
  - Ⓑ compression fracture
  - Ⓒ spiral fracture
  - Ⓓ depressed fracture
  - Ⓔ simple fracture
- \_\_\_\_\_ 13. The axial skeleton contains:
- 1. skull
  - 2. arms and legs
  - 3. ribs and sternum
  - 4. vertebrae
  - 5. pelvic girdles
- Ⓐ 1, 3, 4, 5
  - Ⓑ 1, 3, 4
  - Ⓒ 2, 5
  - Ⓓ 2, 3, 4, 5
  - Ⓔ 1, 2, 3, 5