



**Skeletal System** In Exercises 9–14, use the information below. (See Examples 3 and 4.)

The stapes (pronounced stay-peas) bone is the smallest bone in the body. It is sometimes called the stirrup bone because of its shape. It is located in the middle ear and is about the size of a grain of rice.



### Bones in the Human Body

- Head – 29
- Hands – 38
- Wrists – 16
- Shoulders and arms – 10
- Hips and legs – 10
- Trunk – 51
- Feet – 38
- Ankles – 14

9. Of the hand bones, 28 are finger bones (14 phalanges in each hand). What percent of the hand bones are finger bones?

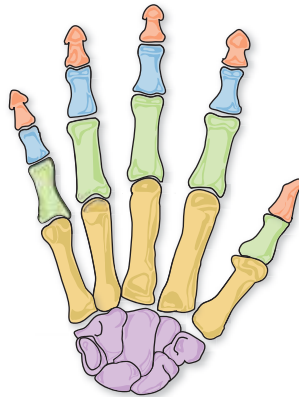
Distal phalanges

Intermediate phalanges

Proximal phalanges

Metacarpals

Carpals



10. Of the head bones, 14 are facial bones. What percent of the head bones are facial bones?
11. What percent of the bones in the human body are in the hips and legs?
12. What percent of the bones in the human body are in the trunk?
13. The skeletal system is a complex work of nature, with the hands and feet being the most intricate. What percent of the bones are in the hands, wrists, feet, and ankles?
14. The longest bone in the body is the thigh bone (femur). The average adult male has a femur that is 48 centimeters long. Use estimation and percent to compare the length of the stapes to the length of the femur in an average adult male.
15. **Skeleton** The skeleton of a 160-pound man weighs about 30 pounds. What percent of the man's weight is his skeleton? (See Examples 3 and 4.)
16. **Weight Gain** The man in Exercise 15 gains 30 pounds. What percent of the man's new weight is his skeleton? (See Examples 3 and 4.)

