

# Algebra in Human Biology

Algebra · Practice Test · 12 Questions

---

**1. The average adult has 5 litres of blood. If an algebra equation states  $5x = 20$ , where  $x$  represents the number of bodies, how many bodies contain a total of 20 litres of blood?**

- A) 2
- B) 4
- C) 5
- D) 10

**2. An adult human has 206 bones. If a child has 300 bones at birth and loses ' $x$ ' bones through fusion to reach 206, what is the value of  $x$ ?**

- A) 94
- B) 104
- C) 194
- D) 206

**3. The human heart beats about 70 times per minute. If ' $y$ ' represents total beats in 2 minutes, which equation represents the relationship?**

- A)  $y = 70 + 2$
- B)  $y = 70 / 2$
- C)  $y = 70 * 2$
- D)  $y = 70 - 2$

**4. A healthy human breathes approximately 16 times per minute. If ' $b$ ' is the total breaths in 10 minutes, what is the value of ' $b$ ' in the equation  $b = 16 * 10$ ?**

- A) 16
- B) 160
- C) 106
- D) 60

**5. Human body temperature is typically 37 degrees Celsius. If  $x + 10 = 37$ , what is the value of  $x$ ?**

- A) 27
- B) 37
- C) 47
- D) 17

**6. An average human skin surface area is 2 square meters. If the surface area of 3 people is represented by  $3s = A$ , what is the total area  $A$ ?**

- A) 3
- B) 5
- C) 6
- D) 9

**7. There are 24 ribs in a human adult. If 'r' represents the number of ribs per side, and  $2r = 24$ , what is the value of  $r$ ?**

- A) 6
- B) 10
- C) 12
- D) 48

**8. A standard glass of water is 250ml. If a person drinks 'w' glasses to reach 1000ml, and  $250w = 1000$ , how many glasses did they drink?**

- A) 2
- B) 4
- C) 5
- D) 10

**9. The human eye blinks about 15 times per minute. If 'n' is the number of blinks in 3 minutes, which equation finds 'n'?**

- A)  $n = 15 * 3$
- B)  $n = 15 + 3$
- C)  $n = 15 / 3$
- D)  $n = 15 - 3$

**10. A human finger has 3 phalanges (bones). If a hand has 4 fingers with 3 bones each, and the equation is  $4 * 3 = t$ , what is the total number of finger bones  $t$ ?**

- A) 7
- B) 10
- C) 12
- D) 14

**11. Standard blood pressure is 120/80 mmHg. If the systolic pressure is represented by  $x$ , and  $x - 20 = 100$ , what is the value of  $x$ ?**

- A) 80
- B) 100
- C) 120
- D) 140

12. A human has 2 sets of teeth in a lifetime. If a person has 32 teeth as an adult and 'y' represents teeth if they had 3 sets, and  $y = 32 * 3$ , what is y?

- A) 64
- B) 86
- C) 96
- D) 102