

Algebra in Human Biology

Algebra · Answer Key · 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