

Human Biology Arithmetic

Multiplication & Division · Practice Test · 20 Questions

1. The average adult heart beats approximately 72 times per minute. If a person's heart beats at this rate for exactly 1 hour, how many total heartbeats occur?

- A) 4,320
- B) 4,200
- C) 4,440
- D) 4,180

2. A healthy human body contains about 5 litres of blood. If a standard donation is 470 millilitres, approximately how many donations would it take to equal the total volume of blood in 3 adults?

- A) 30
- B) 32
- C) 34
- D) 36

3. Human hair grows at a rate of about 0.5 inches per month. How many total inches would hair grow over the course of 7 years?

- A) 38
- B) 40
- C) 42
- D) 44

4. The human small intestine is approximately 22 feet long. If 11 people stood end-to-end with their intestines stretched out, how many yards long would the total reach be?

- A) 80.6
- B) 84.3
- C) 88.6
- D) 73.3

5. An average human breathes about 12 times per minute. If a person maintains this rate for 24 hours, how many total breaths have they taken?

- A) 17,280
- B) 16,400
- C) 18,120
- D) 15,860

6. Human skin replaces itself every 28 days. How many times does the skin regenerate in the span of 4 years (assuming 365 days per year)?

- A) 50
- B) 52
- C) 54
- D) 56

7. The average human brain weighs about 1.4 kilograms. If a research facility collects 150 brain specimens for study, what is the total weight in grams?

- A) 210,000
- B) 21,000
- C) 2,100
- D) 210

8. A red blood cell survives for about 120 days. How many full life cycles does a red blood cell complete in a 3-year period?

- A) 8
- B) 9
- C) 10
- D) 12

9. The human eye blinks about 15,000 times per day. How many times does an individual blink in a standard 365-day year?

- A) 5,475,000
- B) 5,250,000
- C) 5,600,000
- D) 5,125,000

10. An adult human skeleton has 206 bones. If a medical school has a collection representing 14 skeletons, how many individual bones are present in total?

- A) 2,884
- B) 2,794
- C) 2,912
- D) 2,842

11. The human body contains about 600 skeletal muscles. If a clinical study observes 25 people, what is the combined total number of skeletal muscles present?

- A) 12,000
- B) 15,000
- C) 18,000
- D) 14,000

12. A healthy kidney filters about 180 litres of blood per day. How many litres does a pair of kidneys filter over the course of one week?

- A) 1,260
- B) 1,080
- C) 1,440
- D) 1,150

13. There are approximately 100 trillion bacteria in the human gut. If you divide this population into groups of 500 billion, how many groups would you have?

- A) 100
- B) 200
- C) 300
- D) 400

14. An average human produces about 1.5 litres of saliva per day. How many litres of saliva is produced by 40 people in exactly 30 days?

- A) 1,800
- B) 1,600
- C) 2,000
- D) 1,500

15. Human fingernails grow at a rate of 3 millimetres per month. How many centimetres will a nail grow in 5 years?

- A) 15
- B) 18
- C) 21
- D) 24

16. The average person loses about 100 hairs per day. How many hairs are lost by an individual over a span of 5 decades (50 years, ignoring leap years)?

- A) 1,825,000
- B) 1,950,000
- C) 1,750,000
- D) 2,000,000

17. There are approximately 5 million sweat glands in the human body. If a stadium holds 2,000 people, how many sweat glands are present in the stadium?

- A) 10 billion
- B) 5 billion
- C) 8 billion
- D) 12 billion

18. A standard human mouth contains 32 adult teeth. If a dentist examines 125 patients, what is the total number of teeth present?

- A) 4,000
- B) 3,800
- C) 4,200
- D) 3,600

19. The human heart pumps about 5 litres of blood per minute. How many litres are pumped in 24 hours?

- A) 7,200
- B) 7,500
- C) 6,800
- D) 8,000

20. A human sperm cell is approximately 0.05 millimetres long. If you lined up 4,000 of them end-to-end, what would be the total length in millimetres?

- A) 200
- B) 150
- C) 250
- D) 300