

Human Biology Arithmetic

Multiplication & Division · Answer Key · 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