

# Body Facts

**Algebra**

Solve the following equations that relate to the functions of the human body.

1. In the human body, 1.5 L of blood are supplied to the liver every minute. Solve the following equation to find the number of liters per hour.

$$\frac{h}{60} = 1.5$$

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2. The length of the small intestine is 640 cm, or 51.2 times the length of the pancreas. Solve the following equation to find the length of the pancreas.

$$51.2p = 640$$

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3. In the human body, the fastest that a nerve impulse can be transmitted is at a rate of  $120.001 \frac{\text{m}}{\text{sec}}$ . This is 171.43 times faster than the slowest rate that a nerve impulse can be transmitted. Solve the following equation to find the slowest rate at which nerve impulses can be transmitted.

$$171.43n = 120.001$$

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4. The widest nerve in the human body is the spinal cord. Its width is 3.8 cm. This is 19 times the width of the narrowest nerve in the body. Solve the following equation to find the width of the narrowest nerve.

$$19t = 3.8$$

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5. The width of 5,000 human hairs stacked side-by-side is about 19.5 in. Solve the following equation to find the average width of one human hair.

$$5,000h = 19.5$$

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