Description: Short quantitative problem for which students estimate the height and mass of an average adult in SI units.

Familiarity with SI units will aid your study of physics and all other sciences.

## Part A

What is the approximate height of the average adult in centimeters?

- View Available Hint(s) (1)

ANSWER:100 cm

- 200 cm300 cm

If you're not familiar with metric units of length, you can use your body to develop intuition for them. The average height of an adult is 5 feet 6.4 inches. The distance from elbow to fingertips on the average adult is about 50 cm . Ten $\mathrm{mm}(1 \mathrm{~cm})$ is about the width of this adult's little finger and 10 cm is about the width of the average hand.

## Part B

Approximately what is the mass of the average adult in kilograms?

- View Available Hint(s) (1)

ANSWER:

- 80 kg500 kg1200 kg

