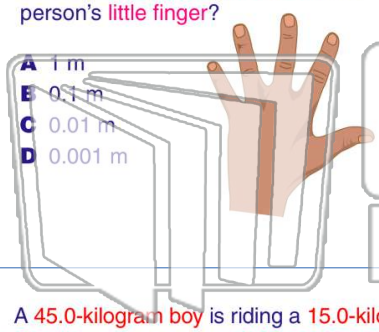
Measurements and Calculations

Phys Sci

Name_____ Class_____ Date_____

1 What is the approximate **width** of a person's little finger?



A 1 m
B 0.1 m
C 0.01 m
D 0.001 m

2 The energy **equivalent** of 5.0×10^{-3} **kilogram** is

A 8.0×10^{5} J
B 1.5×10^{6} J
C 4.5×10^{14} J
D 3.0×10^{19} J

3 A 45.0-kilogram boy is riding a 15.0-kilogram bicycle with a speed of 8.00 meters per second. What is the **combined kinetic energy** of the boy and the bicycle?

4 The **diameter** of a United States penny is closest to

5

7

A $\frac{m}{s^2}$ **C** J•s

B $\frac{W}{m}$ **D** $\frac{kg \cdot m}{s}$

distance of one Earth radius above the surface of Earth?

A 50 N
B 100 N
C 400 N
D 800 N

9 A 95-kilogram student climbs 4.0 meters up a rope in 3.0 seconds. What is the **power output** of the student?

A 1.3×10^{2} W
B 3.8×10^{2} W
C 1.2×10^{3} W
D 3.7×10^{3} W

10 What is the **resistance** at 20°C of a 1.50-meter long aluminum conductor that has a cross-sectional **area** of 1.13×10^{-6} meter^2?

A $1.87 \times 10^{-3}\ \Omega$
B $2.28 \times 10^{-2}\ \Omega$
C $3.74 \times 10^{-2}\ \Omega$
D $1.33 \times 10^{6}\ \Omega$

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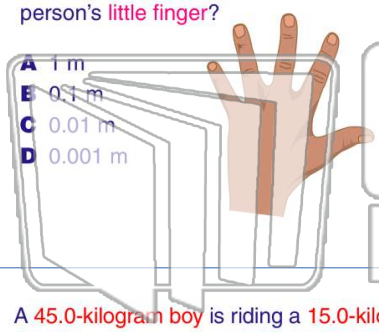

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