

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

- (1) 1 m (3) 0.01 m  
(2) 0.1 m (4) 0.001 m

2. The mass of a high school football player is approximately

- (1)  $10^0$  kg (3)  $10^2$  kg  
(2)  $10^1$  kg (4)  $10^3$  kg

3. What is the approximate mass of a pencil?

- (1)  $5.0 \times 10^{-3}$  kg (3)  $5.0 \times 10^0$  kg  
(2)  $5.0 \times 10^{-1}$  kg (4)  $5.0 \times 10^1$  kg

4. Which measurement of an average classroom door is closest to 1 meter?

- (1) thickness (3) height  
(2) width (4) surface area

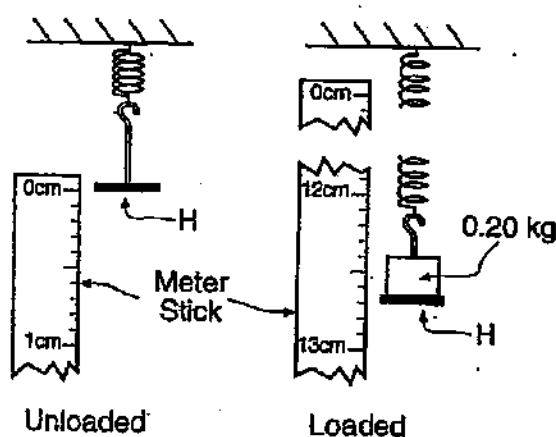
5. The thickness of one page of this test booklet is closest to

- (1)  $10^{-4}$  m (3)  $10^0$  m  
(2)  $10^{-2}$  m (4)  $10^2$  m

6. A mass of one kilogram of nickels has a monetary value in United States dollars of approximately

- (1) \$1.00 (3) \$10.00  
(2) \$0.10 (4) \$1000.00

7. What is the displacement of the mass hanger (H) shown in the diagram after a 0.20-kilogram mass is loaded on it? [Assume the hanger is at rest in both positions.]



- (1) 12.30 cm (3) 12.70 cm  
(2) 12.50 cm (4) 13.30 cm

8. The maximum time allowed for the completion of this examination is approximately (3 hr)

- (1)  $10^2$  s (3)  $10^4$  s  
(2)  $10^3$  s (4)  $10^5$  s

9. Which object weighs approximately 1 newton?

- (1) dime (3) physics student  
(2) paper clip (4) golf ball

10. The mass of a physics textbook is closest to

- (1)  $10^3$  kg (3)  $10^0$  kg  
(2)  $10^1$  kg (4)  $10^{-2}$  kg

11. The height of a doorknob above the floor is closest to

- (1) 1 centimeter (3) 1 millimeter  
(2) 1 meter (4) 1 kilometer

12. The area of this page of the test booklet is closest to

- (1)  $0.6 \text{ cm}^2$  (3)  $60 \text{ cm}^2$   
(2)  $6 \text{ cm}^2$  (4)  $600 \text{ cm}^2$

13. A reasonable height for a chalk tray above the floor is closest to

- (1) 1 cm (3) 100 cm  
(2) 10 cm (4) 1,000 cm

14. The height of an average adult is approximately 1.75

- (1) cm (3) mm  
(2) m (4) km

15. The thickness of a pencil is closest to

- (1) 1 mm (3) 1 m  
(2) 1 cm (4) 1 km

16. What is the approximate diameter of a dinner plate?

- (1) 0.0025 m (3) 0.25 m  
(2) 0.025 m (4) 2.5 m

17. The weight of an apple is closest to

- (1)  $10^{-2}$  N (3)  $10^2$  N  
(2)  $10^0$  N (4)  $10^4$  N

18. The length of a high school physics classroom is probably closest to

- (1)  $10^{-2}$  m (3)  $10^1$  m  
(2)  $10^{-1}$  m (4)  $10^4$  m

19. The thickness of a dollar bill is closest to

- (1)  $10^{-4}$  m (3)  $10^{-1}$  m  
(2)  $10^{-2}$  m (4)  $10^1$  m

20. The approximate mass of a nickel is

- (1) 0.0005 kg (3) 0.5 kg  
(2) 0.005 kg (4) 5 kg

21. To the nearest order of magnitude, how many times greater than the speed of sound is the speed of light? In Ref Tables!

- (1)  $10^4$  (3)  $10^{10}$   
(2)  $10^6$  (4)  $10^{12}$

22. Which is the most likely mass of a high school student?

- (1) 1 kg (3) 60 kg  
(2) 5 kg (4) 250 kg