Applied Physics 10th Edition Ewen Test Bank

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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

1) What is the difference between a subscript and an exponent?

- 1) _____
- Answer: An exponent is a mathematical operation. A subscript is used to define a variable a specific feature or component of a variable.
- 2) What is the difference between a formula and a working equation?

- 2) _____
- Answer: A formula is a basic equation, usually expressed in letters and numbers. A working equation is created when the desired variable is isolated on one side of the equation.
- 3) What is the purpose of estimation when problem solving?

- 3) _____
- Answer: Estimating the expected answer in problem solving can serve as a check to make sure the answer is correct.
- 4) Solve for m in the formula F = ma.

4) _____

- Answer: $m = \frac{F}{a}$
- 5) Solve for t in the formula $s = 1/2 (v_f + v_i)t$.

5)

- Answer: $t = \frac{2s}{v_f v_i}$
- 6) Solve for vf in the formula $s = 1/2 (v_f + v_i)t$.

6)

- Answer: $v_f = \frac{2s}{t} v_i$
- 7) Solve for h in PE = mgh.

7)

- Answer: $h = \frac{PE}{mg}$
- 8) Given A = 1/2 bh, if b = 10.0 cm and h = 12.2 cm, what is A?

8) _____

- Answer: $A = 61.0 \text{ cm}^2$
- 9) A cone has a volume of 315 ${\rm cm}^3$ and a radius of 7.50 cm. What is its height?

9) _____

- Answer: h = 5.35 cm
- 10) A right triangle has a side of 82.4 mm and a side of 19.6 mm. Find the length of the hypotenuse.
- 10) _____

- Answer: 84.7 mm
- 11) Given a cylinder with a radius of 14.4 cm and a height of 16.8 cm, find the lateral surface area.
- 11) _____

Answer: $A = 1520 \text{ cm}^2$

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12)	A rectangle has a perimeter of 80.0 cm. One side has a length of 28.0 cm. What is the length of the adjacent side?	12) _	
	Answer: 12.0 cm		
13)	The formula for the volume of a cylinder is $V = \pi r^2 h$. If $V = 4520 \text{ m}^3$ and $h = 36.0 \text{ m}$, find r.	13) _	
	Answer: $r = 6.32 \text{ m}$		
14)	The formula for the area of a triangle is $A = 1/2$ bh. If $b = 3.12$ m and $A = 82.6$ m ² , find h.	14) _	
	Answer: $h = 52.9 \text{ m}$		
15)	A rectangular parking lot measures 80.0 m by 75.0 m. If the parking lot needs three sections that each measure 8.00 m by 8.00 m for tree plantings, how much area is left for	15) _	

Answer: $A = 5810 \text{ m}^2$

parking spaces?