

EVALUATE FORMULAS FOR GIVEN INPUT VALUES IN ORDER TO CALCULATE CIRCUMFERENCE, AREA, VOLUME, DISTANCE, AND TEMPERATURE

What Is Evaluating Formulas for Given Input Values?

- There are a variety of formulas for calculating measurements, for instance, the formula for calculating the area of a rectangle is length times width or A = I x w.
- The formulas contain places for inputting numbers
 - o The circumference of a circle → $\mathbf{C} = \mathbf{\Pi} \times \mathbf{d}$
 - o The area of a rectangle $\rightarrow A = I \times W$
 - o The volume of a rectangle V I V w V h
- Evaluat perform



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umference,

- Begin by choosing the formula:
 - o Circumference of a circle $\rightarrow \Pi \times D$ ($\Pi = 3.14$)
 - o Area of a rectangle \rightarrow I x w
 - o Area of a triangle \rightarrow ½ b x h
 - o Volume of rectangular solid \rightarrow I x w x h



- Input the values and perform the operation
 - o Circumference of a circle $\rightarrow \pi^*D$ ($\pi = 3.14$ and D = 8 in)
 - $C = 3.14 \times 8 = 25.12$ in
 - o Area of a rectangle \rightarrow I x w (I = 4 in and w = 7 in)
 - $A = 4 \times 7 = 28 \text{ sq. in}$
 - o Area of a triangle $\rightarrow \frac{1}{2}$ b x h (b = 6 inches and h = 12 in)
 - $A = \frac{1}{2} (6 \times 12) = 36$
 - Volume of rectangular solid → I x w x h
 (I = 2cm, w = 6cm, h = 4cm)



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equals 2 degrees.

- o Water freezes at 32° F and boils at 212°
- o Water freezes at 0° C and boils at 100°
- Distances can be measured in standard measure: inches, feet, yards, miles or in metric measure: millimeters, centimeters, meters, kilometers
 - o 12 in = 1 foot
 - o 3 ft = 1 yd
 - 5280 ft = 1 mile
 - o 1000 mm = 1m
 - o 100 cm = 1m
 - \circ 100 m = 1km
- The formulas for measuring are used correctly by inputting the known values and completing the operations.



Try This!

What is the ci	rcumference of a circle with a diameter of 23?	
		1
What is the ar	rea of a rectangle with a length of 12 and a width	of 9?
	$ (\cap)$ \vee \in	
What is the vo	olume of a rectangular solid which measures 4cm	by 8cm by
12cm?		
Would water f	reeze if the temperature was 45° F?	
	PREVIEW	
Would water	Please login or register to download the printable version of this study guide. www.newpathlearning.com	
Which is longe	er a line 600cm or a line 2m?	