

# 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  **$A = l \times w$** .
- The formulas contain places for inputting numbers



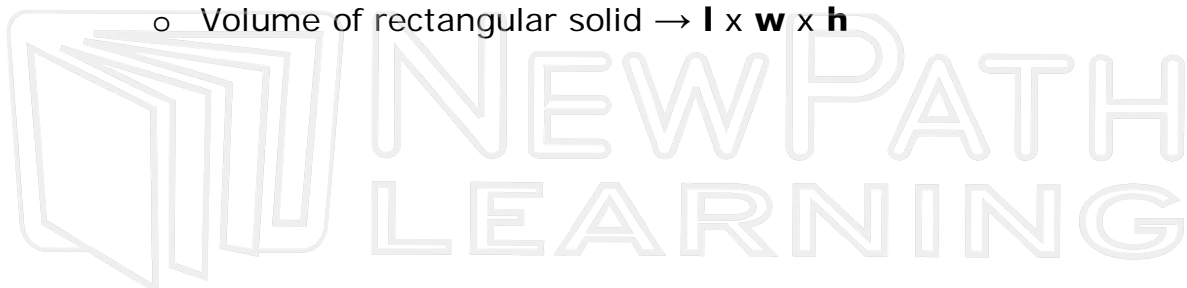
**PREVIEW**

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How to  
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- E
  - Circumference of a circle →  $\pi \times d$  ( $\pi = 3.14$ )
  - Area of a rectangle →  $l \times w$
  - Area of a triangle →  $\frac{1}{2} b \times h$
  - Volume of rectangular solid →  $l \times w \times h$



- Input the values and perform the operation
  - **Circumference** of a circle →  $\pi * D$  ( $\pi = 3.14$  and  $D = 8$  in)
    - $C = 3.14 \times 8 = 25.12$  in
  - **Area** of a **rectangle** →  $l \times w$  ( $l = 4$  in and  $w = 7$  in)
    - $A = 4 \times 7 = 28$  sq. in
  - **Area** of a **triangle** →  $\frac{1}{2} b \times h$  ( $b = 6$  inches and  $h = 12$  in)
    - $A = \frac{1}{2} (6 \times 12) = 36$



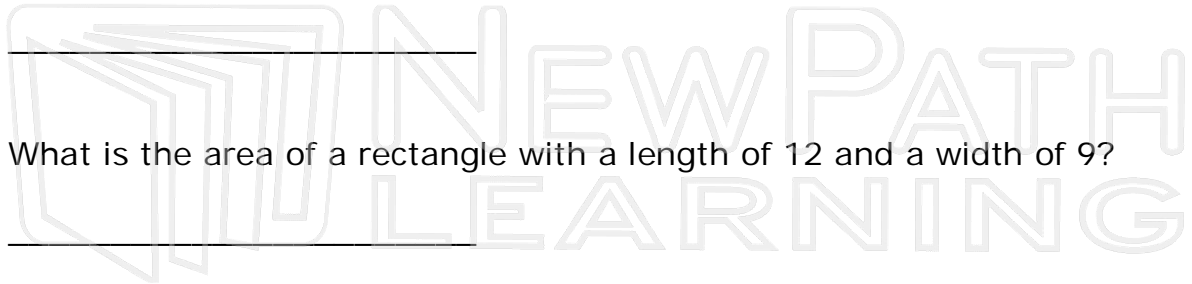
PREVIEW

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

## Try This!

What is the circumference of a circle with a diameter of 23?



What is the area of a rectangle with a length of 12 and a width of 9?

What is the volume of a rectangular solid which measures 4cm by 8cm by 12cm?

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