

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



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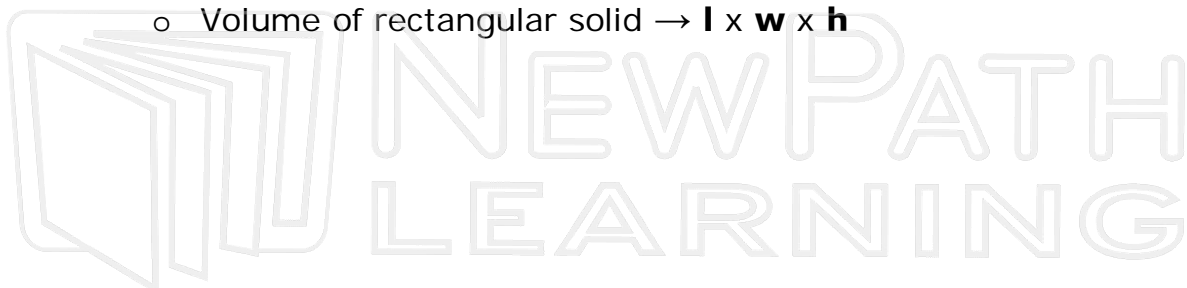
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o Circumference of a circle → $\pi \times d$ ($\pi = 3.14$)

o Area of a rectangle → $l \times w$

o Area of a triangle → $\frac{1}{2} b \times h$

o 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)
 - $A = \frac{1}{2} (6 \times 12) = 36$



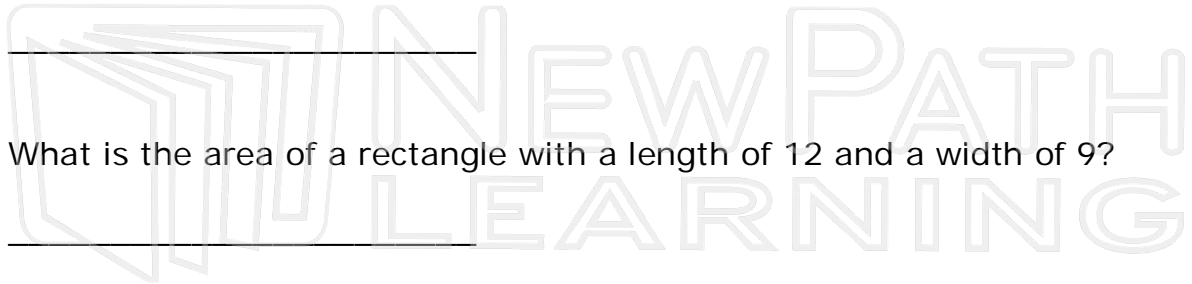
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- Water freezes at $0^{\circ}C$ and boils at 100°
- **Distances** can be measured in standard measure: inches, feet, yards, miles or in metric measure: millimeters, centimeters, meters, kilometers
 - 12 in = 1 foot
 - 3 ft = 1 yd
 - 5280 ft = 1 mile
 - 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?

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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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A preview banner with a light blue background and an orange border. At the top, there are four thought bubbles containing icons for geometry (cube, triangle), science (microscope, globe), algebra (atom, pie chart), and math (bar chart, calculator). Below the bubbles is a row of 14 diverse cartoon children. In the center, the word 'PREVIEW' is written in large, bold, blue and orange letters. Below that, the text 'Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet' is displayed in a dark gray font.

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