AREA OF A TRIANGLE AND A CIRCLE

What is the area of a triangle and circle?

Area is the amount of surface a shape covers.

Area is measured in square units, units², whether the units are inches, feet, meters or centimeters.

The **area formula for a triangle is: A = 1/2 · b · h**, where b is the base and h is the height.

The **area formula for a circle is: A = π · r²,** where π is usually 3.14 and r is the radius of the circle.
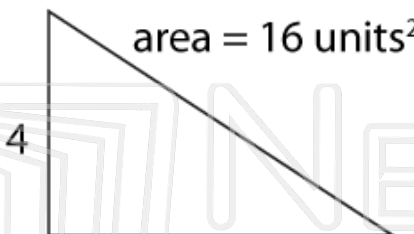
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Example:

$$\text{area} = 16 \text{ units}^2$$

$$A = 1/2 \cdot b \cdot h$$
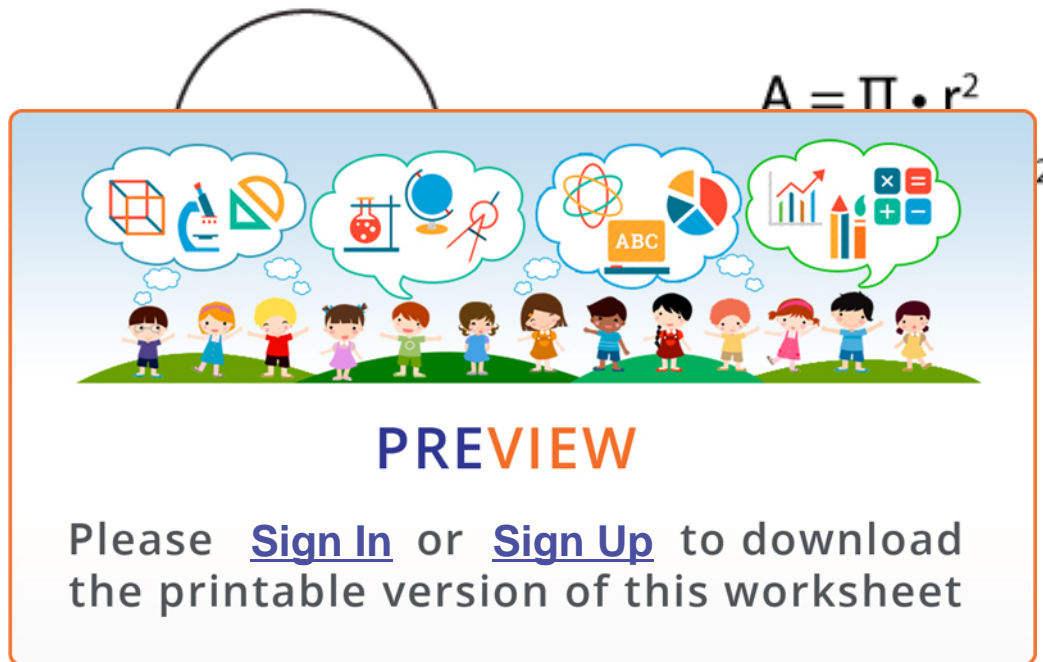$$16 = 1/2 \cdot b \cdot 4$$
$$16 = 2 \cdot b$$
$$8 = b$$

To find the **area of a circle**, use the formula $A = \pi \cdot r^2$

- Fill in for the radius of the circle. Then square the radius and multiply it by π, or 3.14, to find the area.

- The radius of the circle is half of the diameter, so if the diameter of a circle is given, simply divide it in half to find the radius.

- If given the area of a circle, the radius or diameter can be found by using the same formula. This time the area will be filled in and since π is 3.14, by performing the operations, the result will be the radius. If the diameter is needed, simply double the radius.

Example:

$$A = \Pi \cdot r^2$$

Try this!

1. **Find the area of the triangle:**

   base = 4, height = 12

   base = 10, height = 2

2. **Find the missing side of the triangle:**

3.

   diameter = 14

4. **Find the radius:**

   area = 28.26

5. **Find the diameter:**

   area = 200.96