

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: $A = 1/2 \cdot b \cdot h$, where b is the base and h is the height.

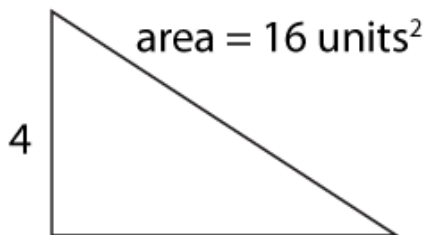
The **area formula for a circle** is: $A = \pi \cdot r^2$, where π is usually 3.14 and r is the radius of the circle.

How to use the area of a triangle and circle:

To find the

- Fill in the height
- If the

Example:



$$A = 1/2 \cdot b \cdot h$$

$$16 = 1/2 \cdot b \cdot 4$$

$$16 = 2 \cdot b$$

$$8 = b$$

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 n is 3.14, by performing the operations, the result will be the radius. If the diameter is needed, simply double the radius.

Example:



$$A = \pi \cdot r^2$$
$$\underline{78.5} = \underline{3.14} \cdot r^2$$
$$4$$



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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:

area = 64 units², base = 4



PREVIEW

area = 64 units², base = 4

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3. Find the

radius = 10

diameter = 14

4. Find the radius:

area = 28.26

5. Find the diameter:

area = 200.96