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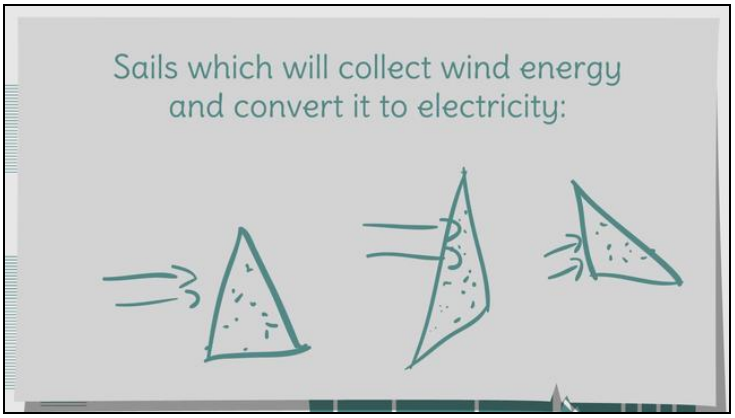
Finding the Area of an Obtuse Triangle

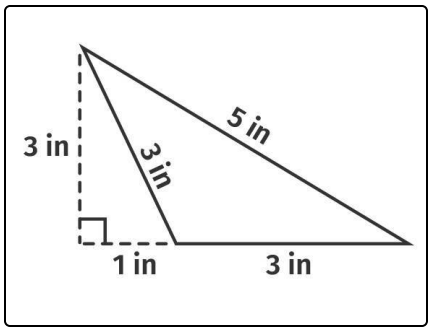


1. **Use a formula to represent the area of a triangle.**
2. **Identify measurements of a triangle used to find the area.**
3. **Identify the height of an obtuse triangle.**
4. **Identify the base and height of an obtuse triangle.**
5. **Use a formula to find the area of an obtuse triangle.**
6. **Apply your knowledge of the area of obtuse triangles to solve a problem.**

\+ **with many hints, answer keys, and solution approaches for all tasks**

Use a formula to represent the area of a triangle.

Choose the correct answer.



Which of the formulas would be used to find the area of the triangle?

A $A = \frac{1}{2}(3)(3.1)$

B $A = \frac{1}{2}(3)(5)$

C $A = \frac{1}{2}(3)(3)$

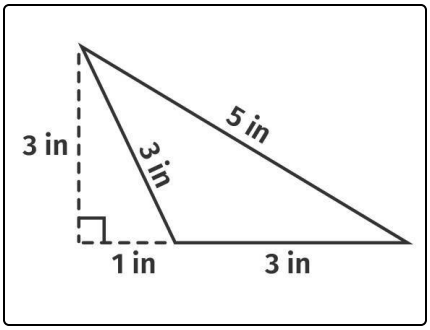
D $A = \frac{1}{2}(4)(3)$

Our hints for the tasks

1 from 6

Use a formula to represent the area of a triangle.

1. Hint



The **base** of this triangle is $3\,\mathrm{cm}$.

The **height** of this triangle is $3\,\mathrm{cm}$

2. Hint

The formula for the area of *any* triangle is $A = \frac{1}{2}bh$.

3. Hint

Since $b = 3$ and $h = 3$, these values are substituted in the formula for b and h.

$A = \frac{1}{2}(3)(3)$

Solutions and solution approaches for the tasks

1 from 6

Use a formula to represent the area of a triangle.

Answer key: C

$b = 3\,\text{in}$

$h = 3\,\text{in}$

$A = \frac{1}{2}bh$

$\text{A} = \frac{1}{2}(3)(3)$