

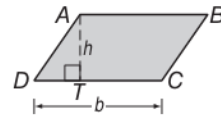


**UNITED NATIONS SCHOOL**  
**PHYSICS WORKSHOP**  
**FIRST PERIOD**  
**SEVENTH GRADE**  
**TEACHER: JAIRO ORJUELA SEGURA**

**The workshop must be solved in the notebook and delivered in the first physics class in April.**

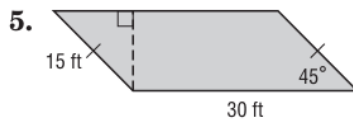
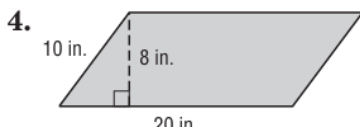
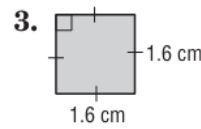
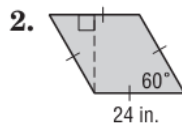
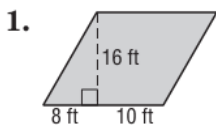
Areas of Parallelograms and Triangles Areas of Parallelograms Any side of a parallelogram can be called a base. The height of a parallelogram is the perpendicular distance between any two parallel bases. The area of a parallelogram is the product of the base and the height.

<b>Area of a Parallelogram</b>	If a parallelogram has an area of $A$ square units, a base of $b$ units, and a height of $h$ units, then $A = bh$ .
--------------------------------	---



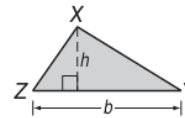
Find the perimeter and area of each parallelogram. Round to the nearest tenth if necessary.

necessary.

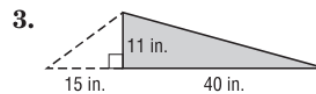
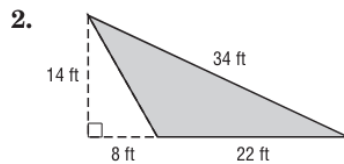
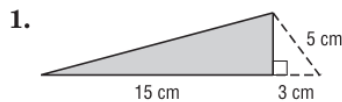


The area of a triangle is one half the product of the base and its corresponding height. Like a parallelogram, the base can be any side, and the height is the length of an altitude drawn to a given base

<b>Area of a Triangle</b>	If a triangle has an area of $A$ square units, a base of $b$ units, and a corresponding height of $h$ units, then $A = \frac{1}{2}bh$ .
---------------------------	---



Find the perimeter and area of each triangle. Round to the nearest tenth if necessary.



9. A rectangle has a length of 5.5 meters and a width of 3.75 meters. Calculate the area of this rectangle.

10. Find the area of a triangle with a base of 8.25 units and a height of 6.5 units.

11. If the diagonal of a rectangle is 17.3 centimeters and one side is 8.6 centimeters, find the area of the rectangle.

12. Given a triangle with side lengths of 5.2 cm, 7.8 cm, and 9.6 cm, determine its area.

13. A rectangle has a perimeter of 27.6 units and a length-to-width ratio of 2:1. Calculate the area of the rectangle.