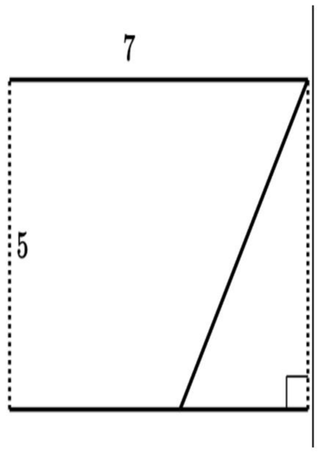
Concept: Area of parallelogram

If you imagine turning the triangle from the parallelogram into a rectangle

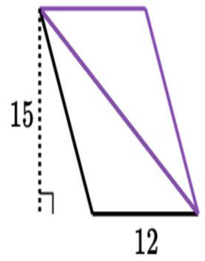


Then you known the size of rectangle is base x height.

Keywords: triangle, parallelogram, rectangle

Concept: Area of triangle

"If you imagine you can double the triangle into parallelogram.

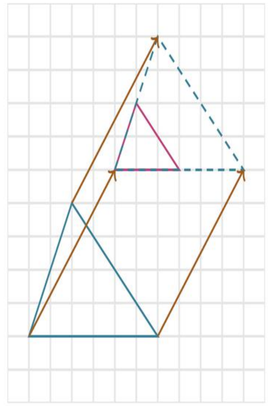


Then you known the size of parallelogram is base x height, and the triangle is half of that area.

Keywords: triangle, parallelogram

Concept: Similarity

If we can map one figure onto the other using a sequence of rigid transformations and dilations, then the figures are similar.



Keywords: rigid transformations, dilations

Concept: Congruent

Two figures are congruent if and only if we can map one onto the other using rigid transformations.

Keywords: angle, side, equal, hypotenuse

Concept: Pythagorean Theorem

The Pythagorean theorem is

$$a^2 + b^2 = c^2$$

Where a and b are lengths of the legs of a right triangle and ccc is the length of the hypotenuse. The theorem means that if we know the lengths of any two sides of a right triangle, we can find out the length of the last side.

Keywords: right angle, hypotenuse, opposite, 90 degrees

Concept: Tangent

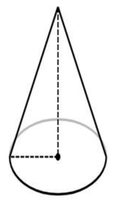
A line that is tangent to a circle at a particular point is perpendicular to the radius at that point.

Keywords: perpendicular, angle, radius, line

Concept: Volume of a Cone

Cones

A circular cone is a pyramid-like figure that has a base shaped like a circle.



$$\text{Volume}_{\text{circular cone}} = \frac{1}{3}(\text{Area}_{\text{circle}}) \cdot (\text{height})$$

Keywords: area, circle, radius, height