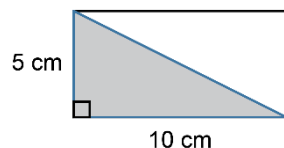# Lesson 4 Assessment
Determining the Area of Triangles
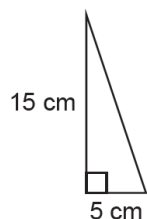
Determining the Area of Triangles

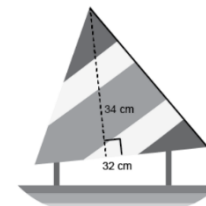| Explains the relationships between the area of a rectangle and a triangle.	Determines the area of a triangle using the area formula.	Uses triangle area formula to determine a missing measure.	Flexibly solves problems involving the area of triangles.
I drew a diagonal of the rectangle and divided the rectangle in two equal triangles. Area rectangle = 50 cm^2 Area triangle = 25 cm^2 So, the area of a triangle is one-half the area of a rectangle. $A = b \times h \div 2$ 5 cm 10 cm	15 cm 5 cm $A = \frac{1}{2}bh$ $A = \frac{1}{2} \times 5 \times 15$ $A = 37.5$ The triangle has an area of 37.5 cm^2.	What is the base of a triangle with area of 36 cm^2 and height of 6 cm? I used the area formula for a triangle. $A = \frac{1}{2}bh$ $36 = \frac{1}{2} \times b \times 6$ $36 = 3 \times b$ $\frac{36}{3} = b$ $b = 12$ The base of the triangle is 12 cm.	34 cm 32 cm What is the area of the sail on the toy boat? "The sail is a triangle with base 32 cm and height 34 cm. $A = \frac{1}{2}bh$ $A = \frac{1}{2} \times 32 \times 34$ $A = 544$ The area of the sail is 544 cm^2."

Observations/Documentation