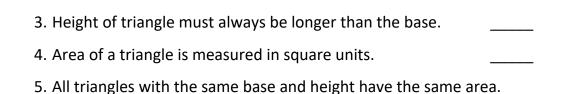
Area of a Triangle

A.	1. The formula for the area of a triangle is	
	a) base × height	b) 2 × base × height
	c) $\frac{1}{2}$ × base × height	d) base + height
	2. If the base of a triangle is 8 cm and height is 6 cm its area is	
	a) 48 cm²	b) 24 cm²
	c) 14 cm²	d) 30 cm²
3. Which unit is used to express the area of a triangle		ss the area of a triangle
	a) cm	b) cm²
	c) m	d) kg
	4. A triangle with base 10 m and height 4 m has an area of	
	a) 40 m²	b) 14 m ²
	c) 20 m²	d) 5 m²
	5. A triangle's base is doubled but height remains the same the area	
	a) becomes half	b) remains same
	c) doubles	d) becomes zero
В.	Write the Missing Terms to Complete the Sentences:	
	1. The area of a triangle is	× base × height.
	2. A triangle with base 12 cm and height 5 cm has area cm².3. Area is always measured in units.	
	4. If a triangle has base 9 m and height 4 m its area is m ² .	

C. Mark each sentence with a True (✓) or False (X):

- 1. The formula for the area of a triangle is $\frac{1}{2} \times$ base \times height.
- 2. A triangle with base 10 cm and height 3 cm has area 15 cm².

5. Area of a triangle increases if the _____ or the ____ increases.



D. Figure out the answers to these questions:

- 1. Find the area of a triangle with base 14 cm and height 10 cm.
- 2. A triangular plot has base 25 m and height 12 m How much land does it cover.
- 3. Calculate the area of a triangle whose base is $\frac{3}{4}$ m and height is 2 m.
- 4. Draw a triangle and label base = 6 cm height = 4 cm then calculate area.
- 5. If the area of a triangle is 30 cm² and the base is 5 cm find the height.

E. Challenge yourself with these questions:

- 1. Find the area of a triangle whose base is 20 cm and height is 15 cm.
- 2. A triangle has area 36 m² and height 6 m Find the base.
- 3. A piece of cloth is in the shape of a triangle with base 30 cm and height 25 cm Find the area.
- 4. A triangular board has base $\frac{1}{2}$ m and height 1 m Find the area in m².
- 5. If base is doubled and height is halved how does the area of triangle change.