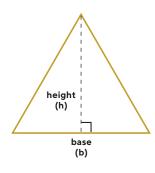




The area of a triangle is one-half the length of the base times the height. The base of a triangle can be any one of its sides. The height is the distance from a base to its opposite point, or vertex. A base must be perpendicular to the height.

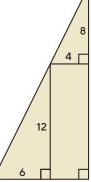


Area of a triangle:

$$\frac{1}{2}$$
 × base × height

DIRECTIONS: Use the formula for the area of a triangle as shown above to calculate the area for the following triangles in square units. Show your work in the right column.

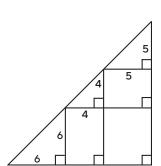
EXAMPLE:



EXAMPLE:

height = 12 + 8 = 20
area =
$$\frac{1}{2} \times 10 \times 20$$

$$= 100 \text{ units}^2$$

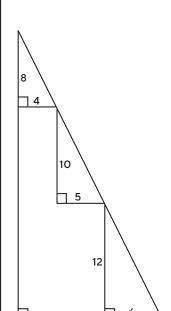


base = 5 + 4 + 6 = 15

height =
$$5 + 4 + 6 = 15$$

area =
$$\frac{1}{2} \times 15 \times 15$$

= 112.5 or
$$112\frac{1}{2}$$
 units²

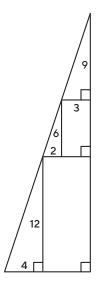


base = 4 + 5 + 6 = 15

$$height = 8 + 10 + 12 = 30$$

$$area = \frac{1}{2} \times 30 \times 15$$

$$= 225 \text{ units}^2$$



base = 3 + 2 + 4 = 9

height = 9 + 6 + 12 = 27

area =
$$\frac{1}{2} \times 17 \times 9$$

=
$$121.5$$
 or $121\frac{1}{2}$ units²