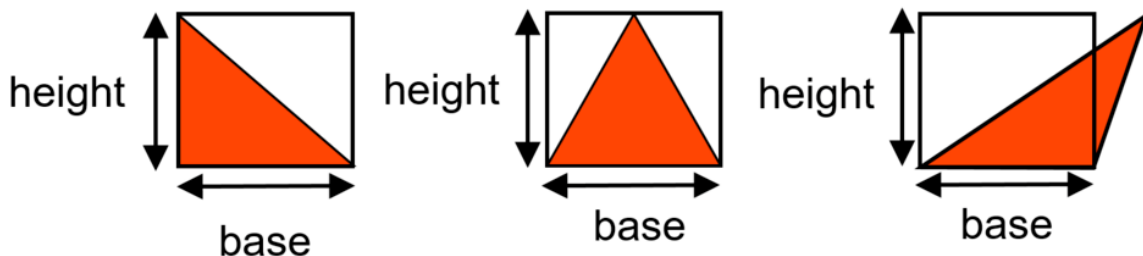


Calculate the Area of a Triangle



If you know the base and height of a triangle, you can find the area using the formula:

```
area = (base * height) / 2
```

Example 1: Area When Base and Height is Known:

```
const baseValue = 20;
const heightValue = 30;
const area = (baseValue * heightValue)/2;
console.log(`The area of triangle is`+ area);

//output : The area of triangle is 300
```

If you know all the sides of a triangle, you can find the area using Heron's formula .

If **a** , **b** and **c** are the three sides of a triangle, then

```
s = (a+b+c)/2  
area =  $\sqrt{s(s-a)(s-b)(s-c)}$ 
```

Example 2: Area When All Sides are Known:

```
const side1 = 100;  
const side2 = 80;  
const side3 = 30;  
  
//calculate semi-perimeter  
const area = (side1+side2+side3)/2;  
  
Totalarea = Math.sqrt(area*(area-side1) *(area - side2) * (area-side3))  
console.log(Totalarea);
```