

# Important Bulge Formulas PDF



## Formulas Examples with Units

### List of 20 Important Bulge Formulas

#### 1) Area of Bulge Formulas ↻

##### 1.1) Area of Bulge Formula ↻

Formula

$$A = 4 \cdot r^2$$

Example with Units

$$100\text{m}^2 = 4 \cdot 5\text{m}^2$$

Evaluate Formula ↻

##### 1.2) Area of Bulge given Height Formula ↻

Formula

$$A = h^2$$

Example with Units

$$100\text{m}^2 = 10\text{m}^2$$

Evaluate Formula ↻

##### 1.3) Area of Bulge given Perimeter Formula ↻

Formula

$$A = \left( \frac{P}{\pi + 2} \right)^2$$

Example with Units

$$94.5681\text{m}^2 = \left( \frac{50\text{m}}{3.1416 + 2} \right)^2$$

Evaluate Formula ↻

##### 1.4) Area of Bulge given Width Formula ↻

Formula

$$A = \frac{w^2}{4}$$

Example with Units

$$100\text{m}^2 = \frac{20\text{m}^2}{4}$$

Evaluate Formula ↻

#### 2) Height of Bulge Formulas ↻

##### 2.1) Height of Bulge Formula ↻

Formula

$$h = 2 \cdot r$$

Example with Units

$$10\text{m} = 2 \cdot 5\text{m}$$

Evaluate Formula ↻

##### 2.2) Height of Bulge given Area Formula ↻

Formula

$$h = \sqrt{A}$$

Example with Units

$$10\text{m} = \sqrt{100\text{m}^2}$$

Evaluate Formula ↻



## 2.3) Height of Bulge given Perimeter Formula ↻

Formula

$$h = \frac{P}{\pi + 2}$$

Example with Units

$$9.7246\text{m} = \frac{50\text{m}}{3.1416 + 2}$$

Evaluate Formula ↻

## 2.4) Height of Bulge given Width Formula ↻

Formula

$$h = \frac{w}{2}$$

Example with Units

$$10\text{m} = \frac{20\text{m}}{2}$$

Evaluate Formula ↻

## 3) Perimeter of Bulge Formulas ↻

### 3.1) Perimeter of Bulge Formula ↻

Formula

$$P = 2 \cdot (\pi + 2) \cdot r$$

Example with Units

$$51.4159\text{m} = 2 \cdot (3.1416 + 2) \cdot 5\text{m}$$

Evaluate Formula ↻

### 3.2) Perimeter of Bulge given Area Formula ↻

Formula

$$P = (\pi + 2) \cdot \sqrt{A}$$

Example with Units

$$51.4159\text{m} = (3.1416 + 2) \cdot \sqrt{100\text{m}^2}$$

Evaluate Formula ↻

### 3.3) Perimeter of Bulge given Height Formula ↻

Formula

$$P = (\pi + 2) \cdot h$$

Example with Units

$$51.4159\text{m} = (3.1416 + 2) \cdot 10\text{m}$$

Evaluate Formula ↻

### 3.4) Perimeter of Bulge given Width Formula ↻

Formula

$$P = (\pi + 2) \cdot \frac{w}{2}$$

Example with Units

$$51.4159\text{m} = (3.1416 + 2) \cdot \frac{20\text{m}}{2}$$

Evaluate Formula ↻

## 4) Radius of Bulge Formulas ↻

### 4.1) Radius of Bulge Formula ↻

Formula

$$r = \sqrt{\frac{A}{4}}$$

Example with Units

$$5\text{m} = \sqrt{\frac{100\text{m}^2}{4}}$$

Evaluate Formula ↻

### 4.2) Radius of Bulge given Height Formula ↻

Formula

$$r = \frac{h}{2}$$

Example with Units

$$5\text{m} = \frac{10\text{m}}{2}$$

Evaluate Formula ↻



### 4.3) Radius of Bulge given Perimeter Formula ↻

Formula

$$r = \frac{P}{2 \cdot (\pi + 2)}$$

Example with Units

$$4.8623 \text{ m} = \frac{50 \text{ m}}{2 \cdot (3.1416 + 2)}$$

Evaluate Formula ↻

### 4.4) Radius of Bulge given Width Formula ↻

Formula

$$r = \frac{w}{4}$$

Example with Units

$$5 \text{ m} = \frac{20 \text{ m}}{4}$$

Evaluate Formula ↻

## 5) Width of Bulge Formulas ↻

### 5.1) Width of Bulge Formula ↻

Formula

$$w = 4 \cdot r$$

Example with Units

$$20 \text{ m} = 4 \cdot 5 \text{ m}$$

Evaluate Formula ↻

### 5.2) Width of Bulge given Area Formula ↻

Formula

$$w = \sqrt{A \cdot 4}$$

Example with Units

$$20 \text{ m} = \sqrt{100 \text{ m}^2 \cdot 4}$$

Evaluate Formula ↻

### 5.3) Width of Bulge given Height Formula ↻

Formula

$$w = 2 \cdot h$$

Example with Units

$$20 \text{ m} = 2 \cdot 10 \text{ m}$$

Evaluate Formula ↻

### 5.4) Width of Bulge given Perimeter Formula ↻

Formula

$$w = 2 \cdot \frac{P}{\pi + 2}$$

Example with Units

$$19.4492 \text{ m} = 2 \cdot \frac{50 \text{ m}}{3.1416 + 2}$$



Evaluate Formula ↻



## Variables used in list of Bulge Formulas above

- **A** Area of Bulge (Square Meter)
- **h** Height of Bulge (Meter)
- **P** Perimeter of Bulge (Meter)
- **r** Radius of Bulge (Meter)
- **w** Width of Bulge (Meter)


## Constants, Functions, Measurements used in list of Bulge Formulas above

- **constant(s):**  $\pi$ ,  
3.14159265358979323846264338327950288  
*Archimedes' constant*
- **Functions:** **sqrt**, sqrt(Number)  
*A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.*
- **Measurement: Length** in Meter (m)  
*Length Unit Conversion* 
- **Measurement: Area** in Square Meter (m<sup>2</sup>)  
*Area Unit Conversion* 



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