

Important Salinon Formulas PDF



Formulas Examples with Units

List of 14 Important Salinon Formulas

1) Area of Salinon Formulas

1.1) Area of Salinon Formula

Formula

Evaluate Formula

$$A = \frac{1}{4} \cdot \pi \cdot \left(r_{\text{Large Semicircle}} + r_{\text{Small Semicircle}} \right)^2$$

Example with Units

$$153.938 \text{ m}^2 = \frac{1}{4} \cdot 3.1416 \cdot \left(10 \text{ m} + 4 \text{ m} \right)^2$$

1.2) Area of Salinon given Inradius Formula

Formula

Example with Units

Evaluate Formula

$$A = \pi \cdot r_i^2$$

$$153.938 \text{ m}^2 = 3.1416 \cdot 7 \text{ m}^2$$

1.3) Area of Salinon given Radius of Lateral and Large Semicircle Formula

Formula

Example with Units

Evaluate Formula

$$A = \pi \cdot \left(r_{\text{Large Semicircle}} - r_{\text{Lateral Semicircles}} \right)^2$$

$$153.938 \text{ m}^2 = 3.1416 \cdot \left(10 \text{ m} - 3 \text{ m} \right)^2$$

1.4) Area of Salinon given Radius of Lateral and Small Semicircle Formula

Formula

Example with Units

Evaluate Formula

$$A = \pi \cdot \left(r_{\text{Small Semicircle}} + r_{\text{Lateral Semicircles}} \right)^2$$

$$153.938 \text{ m}^2 = 3.1416 \cdot \left(4 \text{ m} + 3 \text{ m} \right)^2$$

2) Perimeter of Salinon Formulas

2.1) Perimeter of Salinon Formula

Formula

Example with Units

Evaluate Formula

$$P = 2 \cdot \pi \cdot r_{\text{Large Semicircle}}$$

$$62.8319 \text{ m} = 2 \cdot 3.1416 \cdot 10 \text{ m}$$



2.2) Perimeter of Salinon given Inradius and Radius of Lateral Semicircle Formula

Formula

$$P = 2 \cdot \pi \cdot (r_i + r_{\text{Lateral Semicircles}})$$

Example with Units

$$62.8319\text{ m} = 2 \cdot 3.1416 \cdot (7\text{ m} + 3\text{ m})$$

Evaluate Formula 

2.3) Perimeter of Salinon given Inradius and Radius of Small Semicircle Formula

Formula

$$P = 2 \cdot \pi \cdot ((2 \cdot r_i) - r_{\text{Small Semicircle}})$$

Example with Units

$$62.8319\text{ m} = 2 \cdot 3.1416 \cdot ((2 \cdot 7\text{ m}) - 4\text{ m})$$

Evaluate Formula 

2.4) Perimeter of Salinon given Radius of Small and Lateral Semicircle Formula

Formula

$$P = 2 \cdot \pi \cdot (r_{\text{Small Semicircle}} + (2 \cdot r_{\text{Lateral Semicircles}}))$$

Example with Units

$$62.8319\text{ m} = 2 \cdot 3.1416 \cdot (4\text{ m} + (2 \cdot 3\text{ m}))$$

Evaluate Formula 

3) Radius of Salinon Formulas

3.1) Inradius of Salinon Formula

Formula

$$r_i = \frac{r_{\text{Large Semicircle}} + r_{\text{Small Semicircle}}}{2}$$

Example with Units

$$7\text{ m} = \frac{10\text{ m} + 4\text{ m}}{2}$$

Evaluate Formula 

3.2) Inradius of Salinon given Radius of Large and Lateral Semicircle Formula

Formula

$$r_i = r_{\text{Large Semicircle}} - r_{\text{Lateral Semicircles}}$$

Example with Units

$$7\text{ m} = 10\text{ m} - 3\text{ m}$$

Evaluate Formula 

3.3) Radius of Large Semicircle of Salinon Formula

Formula

$$r_{\text{Large Semicircle}} = r_i + r_{\text{Lateral Semicircles}}$$

Example with Units

$$10\text{ m} = 7\text{ m} + 3\text{ m}$$

Evaluate Formula 

3.4) Radius of Lateral Semicircles of Salinon Formula

Formula

$$r_{\text{Lateral Semicircles}} = \frac{r_{\text{Large Semicircle}} - r_{\text{Small Semicircle}}}{2}$$

Example with Units

$$3\text{ m} = \frac{10\text{ m} - 4\text{ m}}{2}$$

Evaluate Formula 

3.5) Radius of Lateral Semicircles of Salinon given Inradius and Radius of Large Semicircle Formula

Formula

$$r_{\text{Lateral Semicircles}} = r_{\text{Large Semicircle}} - r_i$$

Example with Units

$$3\text{ m} = 10\text{ m} - 7\text{ m}$$

Evaluate Formula 



3.6) Radius of Small Semicircle of Salinon Formula

Formula

$$r_{\text{Small Semicircle}} = r_i - r_{\text{Lateral Semicircles}}$$

Example with Units

$$4\text{ m} = 7\text{ m} - 3\text{ m}$$

Evaluate Formula 



Variables used in list of Salinon Formulas above

- **A** Area of Salinon (Square Meter)
- **P** Perimeter of Salinon (Meter)
- **r_i** Inradius of Salinon (Meter)
- **r** Large Semicircle Radius of Large Semicircle of Salinon (Meter)
- **r** Lateral Semicircles Radius of Lateral Semicircles of Salinon (Meter)
- **r** Small Semicircle Radius of Small Semicircle of Salinon (Meter)

Constants, Functions, Measurements used in list of Salinon Formulas above

- **constant(s):** π ,
3.14159265358979323846264338327950288
Archimedes' constant
- **Measurement: Length** in Meter (m)
Length Unit Conversion 
- **Measurement: Area** in Square Meter (m^2)
Area Unit Conversion 



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