Important Flow Over Rectangular Sharp Crested Weir or Notch Formulas PDF

Formulas
Examples
with Units

List of 41
Important Flow Over Rectangular Sharp Crested Weir or Notch Formulas

1) Approach Velocity Formula

Evaluate Formula

Formula

$$v = \frac{Q'}{b \cdot d_f}$$

Example with Units

$$15.4494\,\text{m/s} = \frac{153\,\text{m}^3/\text{s}}{3.001\,\text{m} \cdot 3.3\,\text{m}}$$

2) Bazins Formula for Discharge if Velocity is considered Formula

Evaluate Formula

Formula

$$Q_{Bv} = m \cdot \sqrt{2 \cdot g} \cdot L_w \cdot H_{Stillwater}^{\frac{3}{2}}$$

Example with Units

$$91.6557\,\text{m}^3/\text{s} = 0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 6.6\,\text{m}^{\frac{3}{2}}$$

3) Bazins Formula for Discharge if Velocity is not considered Formula

Evaluate Formula

Formula

$$Q_{Bv1} = m \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

Example with Units

$$15.2893\,\text{m}^3/\text{s} = 0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 2\,\text{m}^{\frac{3}{2}}$$

4) Coefficient for Bazin Formula Formula

Evaluate Formula

Formula

$$m = 0.405 + \left(\frac{0.003}{S_w}\right)$$

Example with Units

$$0.4065 = 0.405 + \left(\frac{0.003}{2\,\text{m}}\right)$$

5) Coefficient for Bazin Formula if Velocity is considered Formula

Evaluate Formula

Formula

$$m = 0.405 + \left(\frac{0.003}{H_{Stillwater}}\right)$$

Example with Units

$$0.4055 = 0.405 + \left(\frac{0.003}{6.6\,\text{m}}\right)$$

6) Coefficient of Discharge given Discharge if Velocity considered Formula

Evaluate Formula

Formula

$$C_d = \frac{Q_{Fr} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot g}\right) \cdot \left(L_w - 0.1 \cdot n \cdot H_{Stillwater}\right) \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}}\right)}$$

Example with Units

$$1.062 = \frac{8\,\text{m}^3/\text{s} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot 9.8\,\text{m/s}^2}\right) \cdot \left(3\,\text{m} - 0.1 \cdot 4 \cdot 6.6\,\text{m}\right) \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}}\right)}$$

7) Coefficient of Discharge given Discharge if Velocity not considered Formula

Evaluate Formula

Formula

$$C_d = \frac{Q_{Fr} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot g}\right) \cdot \left(L_w - 0.1 \cdot n \cdot S_w\right) \cdot S_w^{\frac{3}{2}}}$$

Example with Units

$$0.4356 = \frac{8\,\text{m}^3/\text{s} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot 9.8\,\text{m/s}^2}\right) \cdot \left(3\,\text{m} - 0.1 \cdot 4 \cdot 2\,\text{m}\right) \cdot 2\,\text{m}^{\frac{3}{2}}}$$

8) Coefficient of Discharge given Discharge over Weir without considering Velocity Formula

Evaluate Formula

Formula

$$C_d = \frac{Q_{Fr'} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot g}\right) \cdot L_w \cdot S_w^{\frac{3}{2}}}$$

Example with Units

$$1.118 = \frac{28\,\text{m}^3/\text{s} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot 9.8\,\text{m/s}^2}\right) \cdot 3\,\text{m} \cdot 2\,\text{m}^{\frac{3}{2}}}$$

9) Coefficient of Discharge given Discharge Passing over Weir considering Velocity Formula

Evaluate Formula

Formula

$$C_d = \frac{Q_{Fr'} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot g}\right) \cdot L_w \cdot \left(\left(S_w + H_V \right)^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

Example with Units

$$0.446 = \frac{28\,\text{m}^3/\text{s} \cdot 3}{2 \cdot \left(\sqrt{2 \cdot 9.8\,\text{m/s}^2}\right) \cdot 3\,\text{m} \cdot \left(\left(2\,\text{m} + 4.6\,\text{m} \right)^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)}$$

10) Coefficient when Bazin Formula for Discharge if Velocity is considered Formula

Evaluate Formula

Formula

$$m = \frac{Q_{Bv}}{\sqrt{2 \cdot g} \cdot L_w \cdot H_{Stillwater}^{\frac{3}{2}}}$$

Example with Units

$$0.407 = \frac{91.65\,\text{m}^3/\text{s}}{\sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 6.6\,\text{m}^{\frac{3}{2}}}$$

11) Coefficient when Bazin Formula for Discharge Velocity is not considered Formula

Evaluate Formula

Formula

$$m = \frac{Q_{Bv1}}{\sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}}$$

Example with Units

$$0.4073 = \frac{15.3\,\text{m}^3/\text{s}}{\sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 2\,\text{m}^{\frac{3}{2}}}$$

12) Depth of Water Flow in Channel given Velocity Approach Formula

Evaluate Formula

Formula

$$d_f = \frac{Q'}{b \cdot v}$$

Example with Units

$$3.3764\,\text{m} = \frac{153\,\text{m}^3/\text{s}}{3.001\,\text{m} \cdot 15.1\,\text{m/s}}$$

13) Francis Formula for Discharge for Rectangular Notch if Velocity is considered Formula

Evaluate Formula

Formula

$$Q_{Fr} = 1.84 \cdot \left(L_w - 0.1 \cdot n \cdot H_{Stillwater} \right) \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)$$

Example with Units

$$4.6963\,\text{m}^3/\text{s} = 1.84 \cdot \left(3\,\text{m} - 0.1 \cdot 4 \cdot 6.6\,\text{m} \right) \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)$$

14) Francis Formula for Discharge for Rectangular Notch if Velocity not considered Formula

Evaluate Formula

Formula

$$Q_{Fr} = 1.84 \cdot \left(L_w - 0.1 \cdot n \cdot S_w \right) \cdot S_w^{\frac{3}{2}}$$

Example with Units

$$11.4495\,\text{m}^3/\text{s} = 1.84 \cdot \left(3\,\text{m} - 0.1 \cdot 4 \cdot 2\,\text{m} \right) \cdot 2\,\text{m}^{\frac{3}{2}}$$

15) Rehbocks Formula for Coefficient of Discharge Formula

Evaluate Formula

Formula

$$C_d = 0.605 + 0.08 \cdot \left(\frac{S_w}{h_{Crest}} \right) + \left(\frac{0.001}{S_w} \right)$$

Example with Units

$$0.6188 = 0.605 + 0.08 \cdot \left(\frac{2\,\text{m}}{12\,\text{m}} \right) + \left(\frac{0.001}{2\,\text{m}} \right)$$

16) Rehbocks Formula for Discharge over Rectangular Weir Formula

Evaluate Formula

Formula

$$Q_{Fr'} = \frac{2}{3} \cdot \left(0.605 + 0.08 \cdot \left(\frac{S_w}{h_{Crest}} \right) + \left(\frac{0.001}{S_w} \right) \right) \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

Example with Units

$$15.498\,\text{m}^3/\text{s} = \frac{2}{3} \cdot \left(0.605 + 0.08 \cdot \left(\frac{2\,\text{m}}{12\,\text{m}} \right) + \left(\frac{0.001}{2\,\text{m}} \right) \right) \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 2\,\text{m}^{\frac{3}{2}}$$

17) Width of Channel given Velocity Approach Formula

Evaluate Formula

Formula

$$b = \frac{Q'}{v \cdot d_f}$$

Example with Units

$$3.0704\,\text{m} = \frac{153\,\text{m}^3/\text{s}}{15.1\,\text{m/s} \cdot 3.3\,\text{m}}$$

18) Discharge Formulas

18.1) Discharge considering Approach Velocity Formula

Evaluate Formula

Formula

$$Q_{Fr} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot \left(L_w - 0.1 \cdot n \cdot H_{Stillwater}\right) \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}}\right)$$

Example with Units

$$4.9718\,\text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot \left(3\,\text{m} - 0.1 \cdot 4 \cdot 6.6\,\text{m}\right) \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}}\right)$$

18.2) Discharge for Notch which is to be Calibrated Formula

Evaluate Formula

Formula

$$Q_{Fr'} = k_{Flow} \cdot S_w^{\,n}$$

Example with Units

$$29.44\,\text{m}^3/\text{s} = 1.84 \cdot 2\,\text{m}^{\,4}$$

18.3) Discharge given Velocity Approach Formula

Evaluate Formula

Formula

$$Q' = v \cdot \left(b \cdot d_f\right)$$

Example with Units

$$149.5398\,\text{m}^3/\text{s} = 15.1\,\text{m/s} \cdot \left(3.001\,\text{m} \cdot 3.3\,\text{m}\right)$$

18.4) Discharge over Weir without considering Velocity Formula

Evaluate Formula

Formula

$$Q_{Fr'} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w \cdot S_w^{\frac{3}{2}}$$

Example with Units

$$16.529\,\text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot 2\,\text{m}^{\frac{3}{2}}$$

18.5) Discharge Passing over Weir considering Velocity Formula

Evaluate Formula

Formula

$$Q_{Fr'} = \left(\frac{2}{3}\right) \cdot C_d \cdot \sqrt{2 \cdot g} \cdot L_w \cdot \left(\left(S_w + H_V\right)^{\frac{3}{2}} - H_V^{\frac{3}{2}}\right)$$

Example with Units

$$41.432\,\text{m}^3/\text{s} = \left(\frac{2}{3}\right) \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 3\,\text{m} \cdot \left(\left(2\,\text{m} + 4.6\,\text{m}\right)^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}}\right)$$

18.6) Discharge when End Contractions is suppressed and Velocity is considered Formula

Evaluate Formula

Formula

$$Q_{Fr'} = 1.84 \cdot L_w \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)$$

Example with Units

$$39.1357\,m^3/s = 1.84 \cdot 3\,m \cdot \left(6.6\,m^{\frac{3}{2}} - 4.6\,m^{\frac{3}{2}} \right)$$

18.7) Discharge when End Contractions is suppressed and Velocity is not considered Formula

Evaluate Formula

Formula

$$Q_{Fr'} = 1.84 \cdot L_w \cdot S_w^{\frac{3}{2}}$$

Example with Units

$$15.6129\,m^3/s = 1.84 \cdot 3\,m \cdot 2\,m^{\frac{3}{2}}$$

19) Hydraulic Head Formulas

19.1) Head given Coefficient for Bazin Formula Formula

Evaluate Formula

Formula

$$S_w = \frac{0.003}{m - 0.405}$$

Example with Units

$$1.5\,m = \frac{0.003}{0.407 - 0.405}$$

19.2) Head given Coefficient using Bazin Formula and Velocity Formula

Evaluate Formula

Formula

$$H_{Stillwater} = \frac{0.003}{m - 0.405}$$

Example with Units

$$1.5\,m = \frac{0.003}{0.407 - 0.405}$$

19.3) Head given Discharge through Notch which is to be Calibrated Formula

Evaluate Formula

Formula

$$S_w = \left(\frac{Q_{Fr'}}{k_{Flow}} \right)^{\frac{1}{n}}$$

Example with Units

$$1.9751\,m = \left(\frac{28\,m^3/s}{1.84} \right)^{\frac{1}{4}}$$

19.4) Head over Crest for given Discharge without Velocity Formula

Evaluate Formula

Formula

$$S_w = \left(\frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g \cdot L_w}} \right)^{\frac{2}{3}}$$

Example with Units

$$2.8421\,m = \left(\frac{28\,m^3/s \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,m/s^2 \cdot 3\,m}} \right)^{\frac{2}{3}}$$

19.5) Head over Crest given Discharge Passing over Weir with Velocity Formula

Evaluate Formula

Formula

$$S_w = \left(\left(\frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g \cdot L_w}}\right) + H_V^{\frac{3}{2}}\right)^{\frac{2}{3}} - H_V$$

Example with Units

$$1.3892\,\text{m} = \left(\left(\frac{28\,\text{m}^3/\text{s} \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2 \cdot 3\,\text{m}}}\right) + 4.6\,\text{m}^{\frac{3}{2}}\right)^{\frac{2}{3}} - 4.6\,\text{m}$$

19.6) Head when Bazin Formula for Discharge if Velocity is considered Formula

Evaluate Formula

Formula

$$H_{Stillwater} = \left(\frac{Q_{Bv}}{m \cdot \sqrt{2 \cdot g \cdot L_w}}\right)^{\frac{2}{3}}$$

Example with Units

$$6.5997\,\text{m} = \left(\frac{91.65\,\text{m}^3/\text{s}}{0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2 \cdot 3\,\text{m}}}\right)^{\frac{2}{3}}$$

19.7) Head when Bazin Formula for Discharge if Velocity is not considered Formula

Evaluate Formula

Formula

$$S_w = \left(\frac{Q_{Bv1}}{m \cdot \sqrt{2 \cdot g \cdot L_w}}\right)^{\frac{2}{3}}$$

Example with Units

$$2.0009\,\text{m} = \left(\frac{15.3\,\text{m}^3/\text{s}}{0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2 \cdot 3\,\text{m}}}\right)^{\frac{2}{3}}$$

19.8) Head when End Contractions is suppressed Formula

Evaluate Formula

Formula

$$H_{Stillwater} = \left(\frac{Q_{Fr'}}{1.84 \cdot L_w}\right)^{\frac{2}{3}}$$

Example with Units

$$2.9522\,\text{m} = \left(\frac{28\,\text{m}^3/\text{s}}{1.84 \cdot 3\,\text{m}}\right)^{\frac{2}{3}}$$

20) Length of Crest Formulas

20.1) Length given Bazins Formula for Discharge if Velocity is not considered Formula

Evaluate Formula

Formula

$$L_w = \frac{Q_{Bv1}}{m \cdot \sqrt{2 \cdot g \cdot S_w^{\frac{3}{2}}}}$$

Example with Units

$$3.0021\,\text{m} = \frac{15.3\,\text{m}^3/\text{s}}{0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2 \cdot 2\,\text{m}^{\frac{3}{2}}}}$$

20.2) Length of Crest considering Velocity Formula

Evaluate Formula

Formula

$$L_w = \left(\frac{3 \cdot Q_{Fr'}}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)} \right) + \left(0.1 \cdot n \cdot H_{Stillwater} \right)$$

Example with Units

$$4.6674\,\text{m} = \left(\frac{3 \cdot 28\,\text{m}^3/\text{s}}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)} \right) + \left(0.1 \cdot 4 \cdot 6.6\,\text{m} \right)$$

20.3) Length of Crest given Discharge Passing over Weir Formula

Evaluate Formula

Formula

$$L_w = \frac{Q_{Fr'} \cdot 3}{2 \cdot C_d \cdot \sqrt{2 \cdot g} \cdot \left(\left(S_w + H_V \right)^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

Example with Units

$$2.0274\,\text{m} = \frac{28\,\text{m}^3/\text{s} \cdot 3}{2 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot \left(\left(2\,\text{m} + 4.6\,\text{m} \right)^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)}$$

20.4) Length of Crest when Discharge and Velocity is considered Formula

Evaluate Formula

Formula

$$L_w = \frac{Q_{Fr'}}{1.84 \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)}$$

Example with Units

$$2.1464\,\text{m} = \frac{28\,\text{m}^3/\text{s}}{1.84 \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)}$$

20.5) Length of Crest when Discharge and Velocity is not considered Formula

Evaluate Formula

Formula

$$L_w = \frac{Q_{Fr'}}{1.84 \cdot H_{Stillwater}^{\frac{3}{2}}}$$

Example with Units

$$0.8975\,\text{m} = \frac{28\,\text{m}^3/\text{s}}{1.84 \cdot 6.6\,\text{m}^{\frac{3}{2}}}$$

20.6) Length of Crest when Francis Formula Discharge and Velocity is considered Formula

Evaluate Formula

Formula

$$L_w = \left(\frac{Q_{Fr}}{1.84 \cdot \left(H_{Stillwater}^{\frac{3}{2}} - H_V^{\frac{3}{2}} \right)} \right) + \left(0.1 \cdot n \cdot H_{Stillwater} \right)$$

Example with Units

$$3.2533\,\text{m} = \left(\frac{8\,\text{m}^3/\text{s}}{1.84 \cdot \left(6.6\,\text{m}^{\frac{3}{2}} - 4.6\,\text{m}^{\frac{3}{2}} \right)} \right) + \left(0.1 \cdot 4 \cdot 6.6\,\text{m} \right)$$

20.7) Length of Crest when Francis Formula Discharge and Velocity is not considered Formula

Evaluate Formula

Formula

$$L_w = \left(\frac{Q_{Fr}}{1.84 \cdot S_w^{\frac{3}{2}}} \right) + \left(0.1 \cdot n \cdot S_w \right)$$

Example with Units

$$2.3372\,\text{m} = \left(\frac{8\,\text{m}^3/\text{s}}{1.84 \cdot 2\,\text{m}^{\frac{3}{2}}} \right) + \left(0.1 \cdot 4 \cdot 2\,\text{m} \right)$$

20.8) Length of Crest without considering Velocity Formula

Evaluate Formula

Formula

$$L_w = \left(\frac{Q_{Fr} \cdot 2}{3 \cdot C_d \cdot \sqrt{2 \cdot g}} \right)^{\frac{2}{3}} + \left(0.1 \cdot n \cdot S_w \right)$$

Example with Units

$$2.2935\,\text{m} = \left(\frac{8\,\text{m}^3/\text{s} \cdot 2}{3 \cdot 0.66 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2}} \right)^{\frac{2}{3}} + \left(0.1 \cdot 4 \cdot 2\,\text{m} \right)$$

20.9) Length when Bazins formula for Discharge if Velocity is considered Formula

Evaluate Formula

Formula

$$L_w = \frac{Q_{Bv}}{m \cdot \sqrt{2 \cdot g} \cdot H_{Stillwater}^{\frac{3}{2}}}$$

Example with Units

$$2.9998\,\text{m} = \frac{91.65\,\text{m}^3/\text{s}}{0.407 \cdot \sqrt{2 \cdot 9.8\,\text{m/s}^2} \cdot 6.6\,\text{m}^{\frac{3}{2}}}$$

Variables used in list of Flow Over Rectangular Sharp Crested Weir or Notch Formulas above

- **b** Width of Channel1 *(Meter)*
- C_d Coefficient of Discharge
- d_f Depth of Flow *(Meter)*
- **g** Acceleration due to Gravity *(Meter per Square Second)*
- h_{Crest} Height of Crest *(Meter)*
- $H_{Stillwater}$ Still Water Head *(Meter)*
- H_V Velocity Head *(Meter)*
- k_{Flow} Constant of Flow
- L_w Length of Weir Crest *(Meter)*
- **m** Bazins Coefficient
- **n** Number of End Contraction
- **Q'** Discharge by Approach Velocity *(Cubic Meter per Second)*
- Q_{Bv} Bazins Discharge with Velocity *(Cubic Meter per Second)*
- Q_{Bv1} Bazins Discharge without Velocity *(Cubic Meter per Second)*
- Q_{Fr} Francis Discharge *(Cubic Meter per Second)*
- $Q_{Fr'}$ Francis Discharge with Suppressed End *(Cubic Meter per Second)*
- S_w Height of Water above Crest of Weir *(Meter)*
- **v** Velocity of Flow 1 *(Meter per Second)*

Constants, Functions, Measurements used in list of Flow Over Rectangular Sharp Crested Weir or Notch Formulas above

- 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: **Speed** in Meter per Second (m/s)
  Speed Unit Conversion
- Measurement: **Acceleration** in Meter per Square Second (m/s²)
  Acceleration Unit Conversion
- Measurement: **Volumetric Flow Rate** in Cubic Meter per Second (m³/s)
  Volumetric Flow Rate Unit Conversion

Download other Important Flow Over Notches and Weirs PDFs

- Important Broad Crested Weir Formulas
- Important Flow Over a Trapizoidal and Triangular Weir or Notch Formulas
- Important Flow Over Rectangular Sharp Crested Weir or Notch Formulas
- Important Submerged Weirs Formulas
- Important Time Required to Empty a Reservoir with Rectangular Weir Formulas

Try our Unique Visual Calculators

- Percentage increase
- HCF calculator
- Mixed fraction

Please SHARE this PDF with someone who needs it!

This PDF can be downloaded in these languages

English Spanish French German Russian Italian Portuguese Polish Dutch

9/23/2024 | 11:35:49 AM UTC