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List of 18 Mean Formulas

Mean

Arithmetic Mean

1) Arithmetic Mean given Geometric and Harmonic Means

$$\text{fx } AM = \frac{GM^2}{HM}$$

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

$$\text{ex } 50.02083 = \frac{(49)^2}{48}$$

2) Arithmetic Mean of First N Natural Numbers

$$\text{fx } AM = \frac{n + 1}{2}$$

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$\text{ex } 3 = \frac{5 + 1}{2}$$

3) Arithmetic Mean of Four Numbers

$$\text{fx } AM = \frac{n_1 + n_2 + n_3 + n_4}{4}$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

$$\text{ex } 50 = \frac{40 + 60 + 20 + 80}{4}$$



4) Arithmetic Mean of N Numbers

$$\text{fx } AM = \frac{S_{\text{Arithmetic}}}{n}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$\text{ex } 50 = \frac{250}{5}$$

5) Arithmetic Mean of Three Numbers

$$\text{fx } AM = \frac{n_1 + n_2 + n_3}{3}$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

$$\text{ex } 40 = \frac{40 + 60 + 20}{3}$$

6) Arithmetic Mean of Two Numbers

$$\text{fx } AM = \frac{n_1 + n_2}{2}$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$\text{ex } 50 = \frac{40 + 60}{2}$$

Geometric Mean

7) Geometric Mean given Arithmetic and Harmonic Means

$$\text{fx } GM = \sqrt{AM \cdot HM}$$

[Open Calculator !\[\]\(84f47badaad7772cd95667a7c387a639_img.jpg\)](#)

$$\text{ex } 48.98979 = \sqrt{50 \cdot 48}$$



8) Geometric Mean of First N Natural Numbers

$$fx \quad GM = (n!)^{\frac{1}{n}}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$ex \quad 2.605171 = (5!)^{\frac{1}{5}}$$

9) Geometric Mean of Four Numbers

$$fx \quad GM = (n_1 \cdot n_2 \cdot n_3 \cdot n_4)^{\frac{1}{4}}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

$$ex \quad 44.26728 = (40 \cdot 60 \cdot 20 \cdot 80)^{\frac{1}{4}}$$

10) Geometric Mean of N Numbers

$$fx \quad GM = (P_{\text{Geometric}})^{\frac{1}{n}}$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7_img.jpg\)](#)

$$ex \quad 2.48625 = (95)^{\frac{1}{5}}$$

11) Geometric Mean of Three Numbers

$$fx \quad GM = (n_1 \cdot n_2 \cdot n_3)^{\frac{1}{3}}$$

[Open Calculator !\[\]\(899d8b7697d64725bf017d3296cfcf1b_img.jpg\)](#)

$$ex \quad 36.34241 = (40 \cdot 60 \cdot 20)^{\frac{1}{3}}$$

12) Geometric Mean of Two Numbers

$$fx \quad GM = \sqrt{n_1 \cdot n_2}$$

[Open Calculator !\[\]\(40770d9ed6ed4f1222ebf89a1396e8b2_img.jpg\)](#)

$$ex \quad 48.98979 = \sqrt{40 \cdot 60}$$



Harmonic Mean

13) Harmonic Mean given Arithmetic and Geometric Means

$$\text{fx } \text{HM} = \frac{\text{GM}^2}{\text{AM}}$$

[Open Calculator !\[\]\(74d4806277d7e73349d8e8c0897931e9_img.jpg\)](#)

$$\text{ex } 48.02 = \frac{(49)^2}{50}$$

14) Harmonic Mean of Four Numbers

$$\text{fx } \text{HM} = \frac{4}{\frac{1}{n_1} + \frac{1}{n_2} + \frac{1}{n_3} + \frac{1}{n_4}}$$

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762_img.jpg\)](#)

$$\text{ex } 38.4 = \frac{4}{\frac{1}{40} + \frac{1}{60} + \frac{1}{20} + \frac{1}{80}}$$

15) Harmonic Mean of N Numbers

$$\text{fx } \text{HM} = \frac{n}{S_{\text{Harmonic}}}$$

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3_img.jpg\)](#)

$$\text{ex } 125 = \frac{5}{0.04}$$




16) Harmonic Mean of Reciprocal of First N Natural Numbers 

$$fx \quad HM = \frac{2}{n + 1}$$

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)


$$ex \quad 0.333333 = \frac{2}{5 + 1}$$

17) Harmonic Mean of Three Numbers 

$$fx \quad HM = \frac{3}{\frac{1}{n_1} + \frac{1}{n_2} + \frac{1}{n_3}}$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$ex \quad 32.72727 = \frac{3}{\frac{1}{40} + \frac{1}{60} + \frac{1}{20}}$$

18) Harmonic Mean of Two Numbers 

$$fx \quad HM = \frac{2 \cdot n_1 \cdot n_2}{n_1 + n_2}$$

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$ex \quad 48 = \frac{2 \cdot 40 \cdot 60}{40 + 60}$$



Variables Used

- **AM** Arithmetic Mean
- **GM** Geometric Mean
- **HM** Harmonic Mean
- **n** Total Numbers
- **n_1** First Number
- **n_2** Second Number
- **n_3** Third Number
- **n_4** Fourth Number
- **$P_{\text{Geometric}}$** Geometric Product of Numbers
- **$S_{\text{Arithmetic}}$** Arithmetic Sum of Numbers
- **S_{Harmonic}** Harmonic Sum of Numbers









Constants, Functions, Measurements used

- **Function:** `sqrt`, `sqrt(Number)`
Square root function



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