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Mean Formulas

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List of 18 Mean Formulas

Mean

Arithmetic Mean

1) Arithmetic Mean given Geometric and Harmonic Means

Open Calculator

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

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

2) Arithmetic Mean of First N Natural Numbers

Open Calculator

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

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

3) Arithmetic Mean of Four Numbers

Open Calculator

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

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

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4) Arithmetic Mean of N Numbers

Open Calculator

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

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

5) Arithmetic Mean of Three Numbers

Open Calculator

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

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

6) Arithmetic Mean of Two Numbers

Open Calculator

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

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

Geometric Mean

7) Geometric Mean given Arithmetic and Harmonic Means

Open Calculator

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

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

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8) Geometric Mean of First N Natural Numbers

Open Calculator

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

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

9) Geometric Mean of Four Numbers

Open Calculator

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

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

10) Geometric Mean of N Numbers

Open Calculator

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

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

11) Geometric Mean of Three Numbers

Open Calculator

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

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

12) Geometric Mean of Two Numbers

Open Calculator

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

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

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Harmonic Mean

13) Harmonic Mean given Arithmetic and Geometric Means

Open Calculator

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

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

14) Harmonic Mean of Four Numbers

Open Calculator

fx $$\mathrm{HM} = \frac{4}{\frac{1}{\mathrm{n}_1} + \frac{1}{\mathrm{n}_2} + \frac{1}{\mathrm{n}_3} + \frac{1}{\mathrm{n}_4}}$$

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

15) Harmonic Mean of N Numbers

Open Calculator

fx $$\mathrm{HM} = \frac{\mathrm{n}}{\mathrm{S}_{\mathrm{Harmonic}}}$$

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

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16) Harmonic Mean of Reciprocal of First N Natural Numbers

Open Calculator

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

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

17) Harmonic Mean of Three Numbers

Open Calculator

fx $$\mathrm{HM} = \frac{3}{\frac{1}{\mathrm{n}_1} + \frac{1}{\mathrm{n}_2} + \frac{1}{\mathrm{n}_3}}$$

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

18) Harmonic Mean of Two Numbers

Open Calculator

fx $$\mathrm{HM} = \frac{2 \cdot \mathrm{n}_1 \cdot \mathrm{n}_2}{\mathrm{n}_1 + \mathrm{n}_2}$$

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

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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
- $P_{Geometric}$ Geometric Product of Numbers
- $S_{Arithmetic}$ Arithmetic Sum of Numbers
- $S_{Harmonic}$ Harmonic Sum of Numbers

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Constants, Functions, Measurements used

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

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