

PRGRS Calculations with progressiones - Comercial Interest

Progressions - Interest

File Info

Progressions

Arithmetic $an = a1 + (n-1) \cdot d$

$a1 = 5$ $d = 10$ $n = 5$ $an = 45$ $Sn = 125$

Interpolate terms between and

$an = a1 + d(n-1)$
 $Sn = \frac{(a1+an) n}{2}$

Geometric $an = a1 \cdot r^{(n-1)}$

$a1 = 5$ $r = 1.732$ $n = 5$ $an = 44.99$ $Sn = 99.63$

falling $S =$

Interpolate terms between and

$an = a1 \cdot d^{n-1}$
 $Sn = \frac{an \cdot r - a1}{r-1}$

Interest

Simple interest

$C = 12000$ $r = 3.6\%$ $t = 8$ $C = 15456$ $C = c(1+r/100)$

Compound interest

$C = 12000$ $r = 3.6\%$ $t = 8$ $C = 15924.26$ $C = c(1+r/100)^t$

Annuities of...

capitalization $i = r/100$

$C = 12000$ $r = 3.6\%$ $t = 8$ $a = 1275.109$ $a = \frac{C \cdot i}{(1+i)((1+i)^t - 1)}$

paying-off

$D = 12000$ $r = 3.6\%$ $t = 8$ $a = 1753.013$ $a = \frac{D \cdot i \cdot (1+i)^t}{(1+i)^t - 1}$

In all the cases it is necessary to introduce 3 data and after pressing **Ok** the rest of parameters will be calculated.

Any of the parameters can be a data, except the **Sn** of the geometric pr., since it implies a non standard equation. Likewise, any parameter can be a unknown, except for **n** and **t**, since they can be only integer values.

If there are more than 3 values in the textboxes of a case they will be interpreted as data the 3 to the left, and the other ones will become results.

If you want to invalidate a textbox like data you must to put it in white.