

CAGR

Version 0.1

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Compound Annual Growth Rate

- Compound Annual Growth Rate. The year over year growth rate applied to an investment or other part of a company's activities over a multiple-year period. The formula for calculating CAGR is $(\text{Current Value}/\text{Base Value})^{(1/\# \text{ of years})} - 1$.

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Read more:

<http://www.investorwords.com/666/CAGR.html#ixzz1q7uc0SZO>

CAGR

- Investopedia explains 'Compound Annual Growth Rate - CAGR'
- CAGR isn't the actual return in reality. It's an imaginary number that describes the rate at which an investment would have grown if it grew at a steady rate. You can think of CAGR as a way to smooth out the returns.

Don't worry if this concept is still fuzzy to you - CAGR is one of those terms best defined by example. Suppose you invested \$10,000 in a portfolio on Jan 1, 2005. Let's say by Jan 1, 2006, your portfolio had grown to \$13,000, then \$14,000 by 2007, and finally ended up at \$19,500 by 2008.

Your CAGR would be the ratio of your ending value to beginning value ($\$19,500 / \$10,000 = 1.95$) raised to the power of $1/3$ (since $1/\#$ of years = $1/3$), then subtracting 1 from the resulting number:

1.95 raised to $1/3$ power = 1.2493 . (This could be written as $1.95^{0.3333}$).

$1.2493 - 1 = 0.2493$

Another way of writing 0.2493 is 24.93% .

Thus, your CAGR for your three-year investment is equal to 24.93% , representing the smoothed annualized gain you earned over your investment time horizon.

Read more: <http://www.investopedia.com/terms/c/cagr.asp#ixzz1q7vNPW4o>

Definition of CAGR

- Definition of 'Compound Annual Growth Rate - CAGR'
- The year-over-year growth rate of an investment over a specified period of time.

The compound annual growth rate is calculated by taking the nth root of the total percentage growth rate, where n is the number of years in the period being considered.

This can be written as follows:

$$\text{CAGR} = \left(\frac{\text{Ending Value}}{\text{Beginning Value}} \right)^{\left(\frac{1}{\# \text{ of years}} \right)} - 1$$

Read more:

<http://www.investopedia.com/terms/c/cagr.asp#ixzz1q7vdWN1x>

Durchschnittliche Wachstumsrate

- Die Abkürzung **CAGR** steht für Compound Annual Growth Rate und beschreibt die durchschnittliche jährliche Wachstumsrate. Die CAGR errechnet sich durch Division des aktuellen Wertes durch den Ausgangswert. Von dem Ergebnis wird die n-te Wurzel gezogen, wobei n die Anzahl der Jahre sind, die betrachtet werden. Dieses Ergebnis wird um Eins subtrahiert, um das jährliche Wachstum bzw. einen Wert für das CAGR zu erhalten.
- Beispiel:
Ein Unternehmen erzielt in 2005 einen Umsatz von 1.000.000 € und in 2009 einen von 2.000.000 €. Um das durchschnittliche jährliche Umsatzwachstum zu berechnen, kann die CAGR herangezogen werden. Demnach muss die 4. Wurzel (=2009-2005) aus 2 (=2.000.000 €/1.000.000 €) gezogen werden, was gerundet einer CAGR=1,19 entspricht. Damit beträgt das durchschnittliche jährliche Wachstum 19%.

Links

- http://en.wikipedia.org/wiki/Compound_annual_growth_rate
- <http://financial-dictionary.thefreedictionary.com/CAGR>
- <http://de.wikipedia.org/wiki/Wachstumsrate>

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