Basic formulas

Simple interest:

$$FV = PV * (1 + r * t)$$

(Only) Interest:

$$I = PV * r * t$$

Compound interest:

$$FV = PV * (1+r)^t$$

Combined interest:

$$FV = PV * (1+r)^n * (1+r*t)$$

, where $n \in Z \land t < 1$ Interest period; $T \in n + t$

Effective interest rate:

$$r_e = \left(1 + \frac{r}{m}\right)^m - 1$$

 \dots where r \dots nominal interest rate and m \dots number of conversions (number of Interest periods)

Anticipated interest:

$$PV = FV * (1 - d * t)$$

i.e. \ldots ahead paid interest, and d \ldots discount rate.

Commercial discount:

$$D = FV * d * t$$

Worth noting:

FV = PV + I vs.	FV = P	V + I	vs.
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PV = FV - D