Component	Definition
Premium	A premium is the amount of money charged by
	an insurance company to keep warranty coverage active. It is
	typically paid monthly but can be billed a number of ways. The
	insurance company calculates the premium using this equation:
	Premium = CPU + SM + RF + PT. Each of these four
	components are described below.
Cost per Unit (CPU)	CPU is the core calculation in risk management and is defined
	as "the average dollar amount needed to cover claim costs,
	including parts and labor, and in some cases, claims
	administration." As an example, let's assume the CPU = \$100.
Safety Margin (SM)	Safety margin is the amount charged by the insurance company
anety margin (em)	to cover "unforeseen changes" and is added to CPU to come up
	with the premium. If the CPU is \$100, and the safety margin is
	15%, the amount of safety margin would be \$17.65. The
	equation is not "\$100 X15%", but instead "(\$100 divided by .85) -
	\$100 = \$17.65."
Risk Fee (RF)	Risk fee is the "base wage" for the insurance carrier. It is used
	to cover carrier resources and deployment of capital/surplus and
	is added to CPU and SM to come up with the premium. At a
	\$100 CPU, a 10% risk fee would add \$13.07 or "(\$100 divided
	by .9) - \$100 = \$13.07."
Premium Tax	The premium tax is the tax imposed by each state on the carrier
Tomain rax	in relation to the gross premium allocated to risks located in that
	state. The insurance carrier passes this on to the consumer or
	manufacturer. For example, a 2% premium tax would add \$2.67
	to the CPU or "(\$100 divided by .9733) - \$100." Now that we
	have the four component costs, we would just add them to get
	the premium. \$100 + \$17.65 +\$13.07 + \$2.67 = \$133.39.
Investment Income	Insurance companies have two sources of income: underwriting
	profits and investment income. The latter is generated through
	investing premiums into interest-bearing assets like stocks and
	bonds. Dividends and interest are then used to offset
	underwriting operations which can sometimes be unprofitable.
	The longer the term of the contracts sold, the more investment
	income there is.
Underwriting Profits	Underwriting profits are calculated as "revenues that come from
Onderwhang Fronts	cash collected on policy premiums minus money paid out on
	claims and for operating the business." In forecasting claims
	costs, insurance companies will always be conservative to
	protect their margins. Manufacturers should recognize this and
	do their own analysis to make sure that they are not paying
	higher premiums than they should.
Loss Fund	The amount left over to pay claims after risk fee and taxes are
2033 1 4114	taken out. It is typically equal to CPU + Safety Margin (and
	sometimes includes investment income).
Profit Share	Percent of the underwriting profits that a manufacturer receives,
1 Tolk Orlaid	based on terms of the agreement with the insurer. It can include
	pased on terms of the agreement with the insurer. It can include

	all or a portion of the underwriting profits (usually 50-100%,
	depending on the size of the program, the known risk, etc.).
"Earned Premium"	The term <i>earned premium</i> refers to the premium collected by an
and Premium Earning	insurance company for the portion of a policy that has expired.
Patterns	Earnings curves provide a company with the percentage of
Fatterns	
	premium that should be recognized as revenue at each point
	throughout the life of the service contract in order to
	appropriately match revenue with expected claim costs.
	Approaches commonly used are Pro Rata, Rule of 78s and
	Reverse Rule of 78s. The Pro Rata approach earns premium
	evenly over the life of a contract, which assumes that losses are
	expected to occur evenly throughout the term of the contract
	which rarely happens. The Rule of 78 s method is commonly
	used when losses are expected to be weighted toward the
	beginning of a contract such as with Used Vehicles. The
	Reverse Rule of 78s is commonly used on New Vehicles where
	the exposure is weighted toward the end of the contract after the
	manufacturer's warranty has expired. In general, these
	benchmark curves provide the benefit of being easy to calculate
	and explain but rarely reflect an accurate expectation of claim
	costs throughout the term. (Source: https://www.providers-
	administrators.com/348218/earnings-curves-matching-premium-
	with-losses-and-refunds)
Claim Emergence	The claim cost curve shows the % of claims that occur each
Patterns	month.
IBNR	The acronym IBNR stands for claims "incurred but not reported".
	In risk management, it refers to claims that have happened, but
	the insurer is still unaware of them. As these claims must still be
	paid out, the insurer must set aside money ("reserves") to cover
	its soon-to-be-discovered costs. Since the insurer knows neither
	how many of these losses have occurred, nor the severity of
	each loss, IBNR calculations are estimates that can be subject to
	a range of errors.
Loss Ratio	The loss ratio is defined as "incurred claims divided by earned
	premium." The issue is that major errors occur as a result of
	earned premium miscalculations. A better measurement would
	be "total forecasted claims / total premium" as this would take
	into consideration the volatility that can occur throughout the
	contract term.