

## Ethereum Basics

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Vhat happe	ens with spare a	gas if too muc	h gas is prov	ided for a tra	nsaction?	
ent (i.e., ı	eld state. In Bi used as an inpurevent double s	it), it cannot				

			WIII	ting the mess			
Name four r a block).	easons why a tr	ransaction se	ent to the l	Ethereum ne	twork might	not get mine	$\operatorname{ed}(\operatorname{includ} \epsilon$
Name two d	fferent ways ho	w a mined t	ransaction	can fail.			
Why does a	mined transact	ion that fail	s still costs	gas?			

	The transaction has paid a 0.001942 ETH transaction fee. Show how this calculation is conducte
	using the provided data fields.
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	The transaction has burnt 0.001935 ETH and saved 0.00086 ETH. Show how these calculation
	are conducted using the provided data fields.
	The transaction is included in block 16947410, which has a base fee of 30.63 Gwei. The followin
(c)	
` '	block has a base lee of 50.51 Gwel. Brieny explain what caused the decrease in the base lee.
` '	block has a base fee of 30.31 Gwei. Briefly explain what caused the decrease in the base fee.
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9.	An Ethereum block header has a more complex structure than a Bitcoin block header due to the vanced world state Ethereum maintains. Name the three Merkle Patricia Trie (MPT) roots contain an Ethereum block header (skip storage root) and name one use case for each.	