cross Rates an Bid/Ask Quotations

Balance of Payments

## Exercise Handbook

May 8, 2019



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	Α	В	С	D	Ε
Α	_	5.2			
В		_			
С			_		9.5
D			6	_	
E	4.5				_

Cross Rates and Bid/Ask Quotations

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	Α	В	С	D	E
Α	_	4.5			
В		_		2	
C	3.05				
D				—	5
E					$\lfloor - \rfloor$



Cross Rates and Bid/Ask Quotations

Payments

	Bid	Ask
$\frac{A}{B}$	220	240

At what exchange rate will:

- Mr. Smith purchase A?
- Mr. Brown sell A?
- Mrs. Green purchase B?
- ► Mrs. Jones sell B?



Cross Rates and Bid/Ask Quotations

Payments

## Consider the following bid-ask quotes:

	Bid	Ask
$\frac{A}{B}$	1.35	1.37
$\frac{A}{C}$	0.71	0.76

Please find the  $\frac{B}{C}$  bid-ask quote (**intermediate computations**).

Now suppose that another market maker publishes the following quotes for the  $\frac{B}{C}$  rate:

	Bid	Ask
<u>B</u> C	0.575	0.579

Would there be arbitrage opportunities? If so, how would you exploit them (assuming you have 100B at your disposal)?

Cross Rates and Bid/Ask

## Fill in the table below (please, show all the relevant computations):

	Bid	Ask
CZJ GBP	35.10	35.17
DKK GBP	9.004	9.009
EUR GBP	1.2066	1.2069
NOK GBP	12.1526	12.153
DKK EUR		
<u>EUR</u> NOK		
<u>GBP</u> CZJ		

Once you have filled in the table above, answer the questions below:

- ► Find the bid-ask spread for the EUR quote.
- ▶ How much would you lose if you converted 1500 NOK into CZJ, then into EUR and finally back into NOK?

- ▶ If a country has a BOP deficit, the total of each BOP sub-account is negative.
- ► The current account is a record of all trade in goods and services, while the capital account is a record of portfolio investment and unilateral transfers.
- Under a fixed exchange rate regime, if a country's private sector sells abroad more than it purchases, the central bank must sell foreign exchange.
- All errors and omissions in the BOP are a result of black market transactions

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