## eLearneconomics: Inflation - Quantity Theory of Money (1)



Student response
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 $M \times V = P \times Q$ 

M = money supply P = price level V = velocity of circulation Q = real output

explain how increases in M affect P and how there is likely to be a difference in the boom and recovery phases of the business cycle.

# eLearneconomics: Inflation – Quantity Theory of Money (1a) Solution



 $M \times V = P \times Q$  M = money supply V = velocity of circulation P = price level Q = real output

Explain how increas	ses in M affect	P and how the	re is likely t	o be a diffe	erence in the	boom and r	ecovery pł	nases of the
business cycle.								

If the money supply (M) increases then inflation (an increase in the general price level) increases, assuming that V and Q are unchanged (constant).
In a boom (peak) period of the business cycle the economy is operating at or near full capacity and there is likely to be
a shortage of resources which will cause firms to bid scarce resources away from each other. The restricted ability of
output or production (Q) to increase when the money supply (M) increases is likely to result in significant increases in
the price level (P).
In a recovery period (upswing) of the business cycle, there is likely to be spare or idle capacity in the economy as
resources are not fully used. Therefore the increase in output or production (Q) that results due to the recovery is likely
to reduce the impact on the price level (P) when the money supply (M) increases.

# eLearneconomics: Inflation - Quantity Theory of Money (2)



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Student response				

•	n E	ur answer Explain the money sup Explain ho	e recovery stagony you should:  The impact on the oply during the low the economy the price level.	recovery stage $^{\prime}$ being in the re	s in the Qu of the busi	antity Theory	of Money equ		crease in the
b <b>)</b> (i)	S	State the	equation of exc	hange.					
(ii	) l	dentify w	hat variable in	the equation re	presents:				
			_						
(ii	i) E	Explain at	what stage of	the business cyc	cle is the v	ariable Q is li	kely to be rela	itively constan	t.
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## eLearneconomics: Inflation - Quantity Theory of Money (2a)



#### **Solutions**

(a) Fully explain, using the Quantity Theory of Money, the impact of an increase in the Money Supply on the price level during the recovery stage of the business cycle.

In your answer you should:

- Explain the impact on the other variables in the Quantity Theory of Money equation of an increase in the money supply during the recovery stage of the business cycle.
- Explain how the economy being in the recovery stage of the business cycle may influence the size of any impact on the price level.

	ng in the price level (P) also increas	iing.
_		likely that consumer confidence is low, and therefore the velocity the price level of an increase in the Money Supply (M). The le
output (Q) in a	recovery is able to rise because res	ources are not being fully used, therefore this will reduce the ir
on the price leve	el (P) of an increase in the Money S	Supply (M).
<b>(b)</b> (i) State th	ne equation of exchange.	
(b) (i) State th	ne equation of exchange.	
MV ≡ PQ	ne equation of exchange.  what variable in the equation repr	resents:
MV ≡ PQ		resents:  P = the Price level
MV ≡ PQ	what variable in the equation repr	
MV ≡ PO (ii) Identify	what variable in the equation reproduced M = the Money supply  V = Velocity of circulation	P = the Price level  Q = Quantity produced / real output
MV ≡ PQ  (ii) Identify  (iii) Explain	what variable in the equation reproduced M = the Money supply  V = Velocity of circulation  at what stage of the business cycle	
MV ≡ PQ  (ii) Identify  (iii) Explain  At the top e	what variable in the equation reproduced M = the Money supply  V = Velocity of circulation  at what stage of the business cycle	P = the Price level  Q = Quantity produced / real output  e is the variable Q is likely to be relatively constant.  economy is near full capacity; i.e., resources are almost fully emp