Cambridge Assessment International Education

Cambridge IGCSE™

ECONOMICS **0455/23**

Paper 2 Structured Questions **October/November 2020**

MARK SCHEME

Maximum Mark: 90

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2020 series for most Cambridge IGCSE™, Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:
Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:
Marks awarded are always **whole marks** (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:
Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:
Rules must be applied consistently, e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

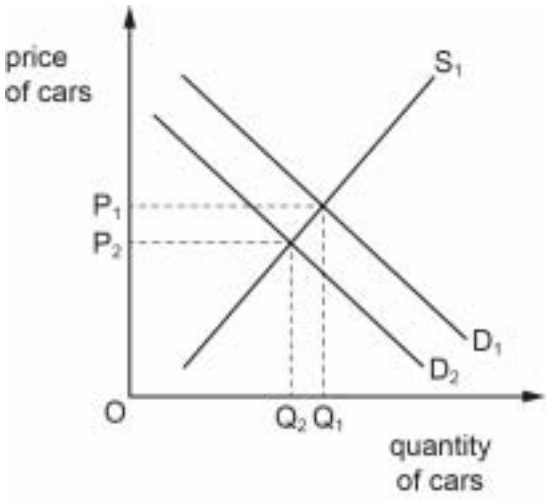
GENERIC MARKING PRINCIPLE 5:
Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:
Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Question	Answer	Marks	Guidance
1(a)	**Calculate the external cost per kilometre of driving a car in Manila in 2017.** $0.54 (1).	**1**	$ not necessary for 1 mark.
1(b)	**Identify <u>two</u> macroeconomic aims of the Philippine government.** Economic growth (1) full employment (1).	**2**	Also accept raised labour productivity and low unemployment. If more than two are given, consider the first two only.
1(c)	**Explain <u>one</u> reason why traffic congestion can reduce labour productivity.** Logical explanation which might include: Reduce health of workers / workers arriving tired / stressed (1) this is likely to lead to more days of absence from work / reduce their output per hour (1). Late arrival to work (1) output per day declines / less working time (1).	**2**	
1(d)	**Explain how an increase in the mobility of Philippine workers would be likely to affect unemployment in the Philippines.** Logical explanation which might include: Greater geographical mobility (1) enables moving from areas of unemployment to areas where there are job vacancies / expanding industries such as computer, retail, and education (1) will affect frictional unemployment (1) take jobs overseas (1). Greater occupational mobility (1) through education/training enables moving into jobs requiring different skills/qualifications (1) will reduce structural unemployment (1).	**4**	

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Question	Answer	Marks	Guidance
1(e)	**Draw a demand and supply diagram to show how a rise in the price of car parking could affect the market for cars in the Philippines.** Up to 4 marks for the diagram: Axes correctly labelled – price and quantity or p and q. (1). Demand and supply curves correctly labelled (1). Demand curve shifted to the left (1). Equilibriums – shown by lines P_1 and Q_1 and P_2 and Q_2, or by labelling equilibrium points as E_1 and E_2 (1).	**4**	 Note: if diagram also shows shift in supply curve (e.g. will not get new equilibrium point) it can still get 3 marks.

Question	Answer	Marks	Guidance
1(f)	**Analyse the relationship between the countries' consumer expenditure and imports.** Coherent analysis which might include: Expected relationship: Direct / positive relationship (1) generally countries with higher consumer expenditure import more goods and services (1). As income rises consumption rises for both domestic and imported goods and services (1). Evidence: E.g. Brazil spends the most and imports the most and Panama spends the least and imports the least (1) supportive data (1). Exception: Argentina/Philippines (1) *supportive data* (1). Analysis: Trade restrictions reduce growth in imports (1) imports include not only consumer goods, but also capital goods bought by firms (1).	**5**	Responses do not have to be in the format suggested but they should address the expected/normal relationship, offer supporting evidence of that, highlight any exceptions to that, and analyse the overall data.

<table>
<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Guidance</th></tr>
<tr>
<td>1(g)</td>
<td>Discuss whether or not the supply of enterprise is likely to increase in the Philippines.

Up to 4 marks for why it might:
• economy is growing / rising incomes / higher consumer spending (1) so likely to earn higher profit (1)
• well-educated population (1) ability to employ skilled labour (1) attracts MNCs (1)
• greater skills (1) encourage workers to set up own businesses (1)
• population is growing (1) so more potential entrepreneurs (1) larger markets (1)
• deregulation (1) so there may be more market opportunities / less barriers to entry (1)
• the reduction of traffic congestion (i) will increase productivity of workers (1) raising opportunity to make profits (1)

Up to 4 marks for why it might not:
• some entrepreneurs may emigrate (1)
• high taxes (1) which may reduce the reward to entrepreneurs (1)
• traffic congestion (1) can increase costs of production (1) MNCs may be discouraged from entering the country / reducing the supply of foreign entrepreneurs (1)
• may not want to take the risk/stress of running own business (1) prefer to stay as employee (1)
• growth rate is falling (1) less opportunities for investment / new businesses (1)</td>
<td>6</td>
<td>Apply this example to all questions with the command word DISCUSS (1(g), 1(h), 2(d), 3(d), 4(d) and 5(d))

Each point may be credited only once, on either side of an argument, but separate development as to how/why the outcome may differ is rewarded.

<table>
<tr><th>Generic example</th><th>mark</th></tr>
<tr><td>Tax revenue may decrease…</td><td>1</td></tr>
<tr><td>...because of reason
e.g. incomes may be lower.</td><td>1</td></tr>
<tr><td>Tax revenue may increase
because incomes may be higher
i.e. reverse of a previous argument.</td><td>0</td></tr>
<tr><td>Tax revenue may increase
because of a different reason
i.e. <u>not</u> the reverse of a previous argument
e.g. government spending on subsidies may stimulate the economy more than spending on education.</td><td>1</td></tr>
</table>
</td>
</tr>
</table>

Question	Answer	Marks	Guidance
1(h)	**Discuss whether or not building more roads in Manila will benefit the Philippine economy.** Up to 4 marks for why it might: • reduce traffic congestion (1) lowering journey times / transport costs (1) helps tourism (1) • productivity may rise (1), reduce costs of production (1) encourages higher output / economic growth (1) • government expenditure on roads (1) leads to higher employment (1) and higher spending / total demand (1) • MNCs may be attracted into the country (1) reducing unemployment (1) • lower average costs (1) may increase international price competitiveness (1) increasing exports (1) improving the current account position (1) Up to 4 marks for why it might not: • shortage of land (1) opportunity cost in terms of how the land is used (1) • opportunity cost (1) could have been used for education / health (1) • government may have to raise taxes to fund the road building (1) and taxes are already high (1) • may increase the number of cars on the roads (1) may not reduce traffic congestion in the long run (1) • during the building process there will be disruption to drivers and production (1) • more roads lead to increase in negative externalities (1) example (1) lowering standard of living (1) • rapid growth in population (1) land more expensive to build roads (1) • additional expenditure if at full employment (1) could lead to demand-pull inflation (1)	**6**	

Question	Answer	Marks	Guidance
2(a)	**Define *microeconomics.*** Study/analysis of or focus on individual markets / economic agents e.g. individuals, households, and firms (2). Study of economics on a small scale, e.g. demand for cars (1). Demand and supply for individual products/markets (1).	**2**	
2(b)	**Explain <u>two</u> causes of differences in economic development between countries.** Logical explanation which might include: Resources – land/labour/capital/enterprise (1) affect productive capacity of a country (1). Income (1) enabling people to consume more goods and services (1). Productivity (1) making better use of resources (1). Higher international trade / exports (1) results in higher output (1) Size of primary sector (1) larger primary sectors may mean lower incomes / hard working conditions (1). Saving (1) which can influence the proportion of capital goods produced/the extent to which people have a safety net (1). Investment (1) which may influence economic growth / make work less physically demanding (1). Education / literacy rates (1) which influence choices/income/health (1). Healthcare (1) which affects life expectancy / quality of life (1).	**4**	One mark for each of two causes identified and one mark for each of two explanations. Allow reference to political instability and social unrest if linked to economic development.

Question	Answer	Marks	Guidance
2(c)	**Analyse how a cut in the interest rate could reduce poverty.** Coherent analysis which might include: Cost of borrowing will fall / reward from saving will decline (1) increase borrowing / demand for loans (1) consumer spending will increase (1) firms may invest more (1) output may rise (1) unemployed gain jobs / employment may increase (1) incomes may rise / reduction in absolute poverty (1). The poor who have borrowed in the past (1) will have more money to spend on basic necessities (1) spend on education (1) improve skills (1) get better paid jobs (1) reducing relative poverty (1). Housing may be cheaper (1) making shelter more accessible (1). May enable some of the poor to borrow to start up small businesses (1) and earn a higher income (1). Cheaper for government to borrow (1) enabling it to spend more on education/healthcare (1).	6	

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<td>2(d)</td>
<td>Discuss whether or not government intervention will correct the market failure caused by a demerit good.

In assessing each answer, use the table opposite.

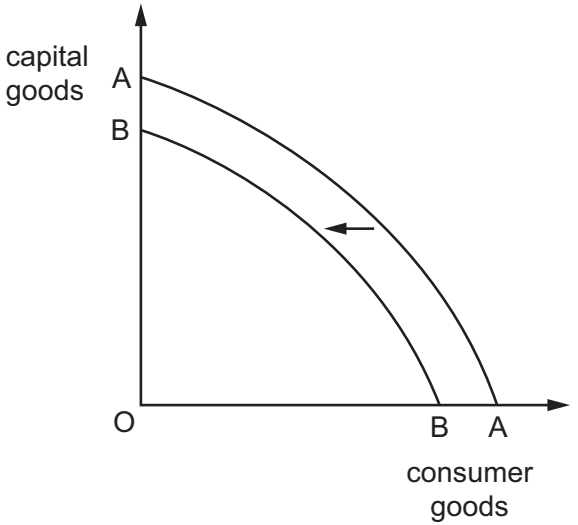
Why it might:
• tax can be imposed/increased
• this will raise price
• consumers better informed about negative impact
• demand would be expected to contract
• a minimum price could be imposed
• this again would be expected to reduce demand
• restrictions could be imposed on the imports of demerit goods

Why it might not:
• demand may be price inelastic, some demerit goods are addictive
• the government may set a tax too high or too low
• the rich may not be dissuaded by the tax
• producers may not pass on the tax to consumers
• a minimum price set below the equilibrium level would have no effect
• a minimum price could result in a surplus which may put downward pressure on price, encourage producers to charge less than the minimum price

Example of Level 2 answer:
Government’s job is to keep the economy going in a healthy way. Therefore, they try eliminating demerit goods to increase the benefits for society as a whole. If there is market failure caused by a demerit good it will be because too many people are consuming them and causing total benefit for society to fall.</td>
<td>8</td>
<td>
<table>
<tr><th>Level</th><th>Descriptors</th><th>Mark</th></tr>
<tr><td>3</td><td>A reasoned discussion which accurately examines both sides of the economic argument, making use of economic information and clear and logical analysis to evaluate economic issues and situations. One side of the argument may have more depth than the other, but overall, both sides of the argument are considered and developed. There is thoughtful evaluation of economic concepts, terminology, information and/or data appropriate to the question. The discussion may also point out the possible uncertainties of alternative decisions and outcomes.</td><td>6–8</td></tr>
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Reward but do not expect provision of information.
</td>
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Question	Answer	Marks	Guidance
2(d)	*Government intervention such as increasing taxes for merit goods will lower consumption and also with the money collected from taxes they can make merit goods instead of demerit goods. For example, if too many people consume cigarettes and tobacco, the government can raise taxes for tobacco and prices will rise. They can use the taxes collected to make additional videos and tell people the bad things that comes from smoking. Therefore, people will consume less of these demerit goods.* *However, demerit goods especially addictive things like cigarettes will have a lot of people producing them since its easy to make money. An increase in tax may cause unemployment if they cannot sell as much as before so the fixing of one market failure may cause another one to appear.* Principal Examiner comment: This is reasonable on one side but limited on the second side. Example of a Level 1 answer: *Government intervention can cause a huge change in the market of a demerit good. Increase in taxes for a demerit good will reduce demand.* Principal Examiner comment: One method of government intervention identified.		

Question	Answer	Marks	Guidance
3(a)	**Define *privatisation*.** The sale of state-owned assets / state-owned enterprises / nationalised industries (1) to the private sector / individuals (1).	**2**	Allow denationalisation (2) only private firms (1).
3(b)	**Explain <u>two</u> causes of a fall in the birth rate.** Logical explanation which might include: Rise in the cost of having children (1) e.g. children staying in education for longer (1). Rise in the education of women (1) may be more likely to enter employment/delay having children (1). Rise in government provision of state pensions (1) less need for couples to have children to support them in old age (1). Rise in access to contraceptives (1) making family planning more effective (1). Improvement in healthcare (1) reducing infant mortality (1). Increase in state provision of welfare payments (1) reducing the need to have children support parents in old age (1). Reduction in infant mortality (1) people having fewer children in the expectation more will survive (1). Ageing population (1) fewer people of child-bearing age (1). Education (1) e.g. higher cost of having children (1) women may get married later (1). More women working (1) may delay childbirth (1). Government policy (1) e.g. placing a limit on number of children (1).	**4**	One mark for each of two causes identified and one mark for each of two explanations. No mark for simply linking fall in birth rate with low income.

Question	Answer	Marks	Guidance
3(c)	**Analyse, using a production possibility curve (PPC) diagram, the effects of a decrease in the quantity of capital goods in an economy.** Up to 4 marks for the diagram: Axes correctly labelled (1). Initial curve drawn as a curve or downward sloping line to the axes (1). New curve drawn as a curve or downward sloping line to the axes (1). Shift to the left / pivot indicated by arrow or lettering (1). Up to 2 marks for coherent analysis which might include: Capital goods are a resource / investment used to produce other goods (1). Fewer capital goods / factors of production reduce potential output / productive capacity (1).	**6**	 Accept a PPC diagram that shows fewer capital goods and the same quantity of consumer goods. Accept Good A / Good B labelling on axis. Note: movement along the existing PPC is incorrect. So potentially only 2 marks for correctly labelled axes and correct curve.

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<tr><td>3(d)</td><td>Discuss whether or not a government should allow monopolies.

In assessing each answer, use the table opposite.

Why it should:
• monopolies may be able to take advantage of economies of scale
• may be able to experience lower average costs and charge lower prices
• may earn high profits and so be able to spend on investment and research and development
• may be able to produce high quality products
• may be internationally competitive
• maybe nationalised monopolies with welfare objectives

Why it should not:
• maybe market failure/abuse market power
• may charge high prices
• may restrict output
• may become complacent
• may not improve quality

Example of Level 3 answer:
Yes, the government should allow monopolies. It will prevent duplication of goods due to unique products with no close substitutes produced. This can reduce the wastage of resources. Monopolies can also benefit from economies of scale as they produce in large quantities so they can benefit from cost saving by negotiating favourable prices as a result of bulk buying. This can translate into lower prices for consumers, increasing their ability to consume more goods and services, boosting economic growth and their standard of living.</td><td>8</td><td>
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Question	Answer	Marks	Guidance
3(d)	*Since it is possible for monopolies to earn supernormal profits, they are more able to spend more on research and development of their products, improving quality for consumers.* *No, they should not allow monopolies. Due to them being a single seller, this allows them to exploit consumers by charging higher prices as there is imperfect information and they are the only firm in the market, consumers have no choice but to buy the unreasonably priced products which means consumers spend too much in the long run and may even cause inflation to rise too. Monopolies may also increase income inequality as the producer gains at the expense of their consumers, especially those on lower incomes, causing poverty for those on low incomes especially if these products are essential goods and services such as food and utilities.* Principal Examiner comment: This is a well thought out response with strong arguments on both sides and several aspects analysed.		

Question	Answer	Marks	Guidance
4(a)	**Define *deregulation.*** The removal of rules/regulation (2). Less government intervention (1) to encourage competition (1). Actions making it easier for businesses to enter / operate in an industry (1). Supply-side policy (1) to increase competition (1).	**2**	

Question	Answer	Marks	Guidance
4(b)	**Explain <u>two</u> benefits consumers may gain from a market economic system.** Logical explanation which might include: Sovereignty (1) consumers decide what will be produced (1). Choice (1) there may be a number of firms producing a product (1). Low prices (1) competition may mean that firms have to charge low prices to keep their customers (1). High quality (1) the profit incentive may encourage firms to raise quality to attract more consumers (1).	**4**	One mark for each of two benefits identified and one mark for each of two explanations.
4(c)	**Analyse how education and subsidies can increase a country's economic growth rate.** Coherent analysis which might include: Education/training may increase qualifications/skills (1) raising the productivity of workers (1) increasing the mobility of workers (1) attracts MNCs (1) reduces unemployment (1) raising the quality (1) and quantity of output (1). Subsidies will lower firms' costs of production (1) encouraging firms to increase their production (1) increasing supply (1) lowering price (1) a higher output is likely to be bought and sold (1). Subsidies for consumers e.g. education/health (1) may help in gaining skills/jobs and being more productive (1).	**6**	

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<tr><th>Question</th><th>Answer</th><th>Marks</th><th>Guidance</th></tr>
<tr><td>4(d)</td><td>Discuss whether or not a reduction in a country's trade protection will reduce its current account surplus.

In assessing each answer, use the table opposite.

Why it might:
• lower tariffs will reduce price of imports
• removal of quotas may result in more imports being purchased
• removal of a ban/embargo will permit imports of the product to enter the country
• import expenditure may rise
• higher import expenditure may reduce the gap between export revenue and import expenditure

Why it might not:
• foreign firms may not have the capacity to supply more products
• demand for imports may be price inelastic
• the quality of imports may have fallen
• other countries may also reduce their trade restrictions
• the exchange rate may fall, raising exports and reducing imports
• export revenue may rise to match the higher import expenditure
• may have large surplus on invisibles

Example of Level 2 answer:
The removal of quotas and tariffs on imports will make it relatively cheaper to import into the country. More imports will come into the country reducing its current account surplus. However, a reduction in a country's trade protection will show the country's willingness to have trading partners.</td><td>8</td><td>
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Question	Answer	Marks	Guidance
4(d)	*As such, domestic firms will allocate more resources into producing exports at relatively lower costs and better quality so that they will be more competitive in the global economy. Other countries may be attracted to these exports and the demand for them will increase. Thus, the demand for local currency will increase, causing the current account surplus to increase. Thus, the current account surplus may increase or decrease depending on the extent of the fall in import prices and the rise in demand for exports.* Principal Examiner comment: There is limited coverage of both sides.		

Question	Answer	Marks	Guidance
5(a)	**State <u>two</u> functions, other than issuing banknotes and coins, of a central bank.** Two from: • manages monetary policy / sets the rate of interest • manages the national debt • controls the banking system • banker to commercial banks • banker to the government • lender of last resort • looks after reserves of gold and foreign currency	**2**	Allow banker to the banks

Question	Answer	Marks	Guidance
5(b)	**Explain <u>two</u> reasons why workers in the tertiary sector may be paid more than workers in the primary sector.** Logical explanation which might include: Higher demand (1) due to e.g. higher productivity / more profitable / expansion of tertiary industries (1). Lower supply (1) due to e.g. higher qualifications/skills/education needed (1). Stronger bargaining power (1) due to stronger trade unions / professional organisations (1). Primary sector workers can be replaced by capital equipment (1) so bargaining strength is weak (1). More favoured by government policy (1) e.g. increased government spending on education/healthcare (1). Tertiary sector workers are mainly found in developed countries where wages / cost of living is generally high (1) whereas primary sector workers are mainly found in undeveloped countries were wages / cost of living are generally low (1). Lower value of goods and services being provided in primary sector (1) lower pay for primary sector workers (1).	**4**	One mark for each of two reasons identified and one mark for each of two explanations.
5(c)	**Analyse the advantages for firms of using division of labour.** Coherent analysis which might include: Division of labour involves workers specialising (1) this can increase output / increase productivity (1) costs of production may be reduced (1) e.g. lower costs of training (1) e.g. less equipment needed (1). Specialisation can increase quality (1) lower costs can enable to charge lower prices (1) demand may rise (1) revenue/profits may increase (1).	**6**	

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<table>
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<tr><td>5(d)</td><td>Discuss whether or not deflation will benefit an economy.

In assessing each answer, use the table opposite.

Why it might:
• if due to lower costs of production, may be more internationally competitive
• improve the current account position
• may increase purchasing power if incomes do not fall
• may raise living standards
• may increase economic growth and employment

Why it might not:
• if due to lower total demand may result in a recession
• consumers may postpone purchases
• investment may fall
• firms may reduce output, reducing demand for raw materials
• unemployment may rise

Example of Level 3 answer:
When an economy undergoes deflation, the general price level in the economy falls resulting in goods and services in the country becoming cheaper. This results in a higher demand for the country’s goods and services from both those living in the country and abroad. The revenue from exports will increase due to greater international demand resulting in a current account surplus. Lower prices may improve standard of living for consumers as more can be bought than before.</td><td>8</td><td>
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Question	Answer	Marks	Guidance
5(d)	*However, an economy may not benefit from deflation as a prolonged deflation may result in unemployment. Firms may lose confidence in future sales as consumers wait for prices to fall further. Lower output may result in less employment further reducing demand and causing a recession. The government may have to intervene by cutting taxes and interest rates to encourage increased consumption.* Principal Examiner comment: This is a concise answer with reasonable argument for the benefits and a strong answer for why there may not be benefits. Example of Level 1 answer: *Deflation makes prices of goods and services to be low which will entice consumers to buy more as prices are cheaper than before.* Principal Examiner comment: A basic understanding of deflation without any discussion of whether or not it is beneficial to the economy.		

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