

T₁

$$(1) \text{名义GDP}_{(2016)} = 100 \times 10 + 200 \times 1 + 500 \times 0.5 = 1450 (\text{美元})$$

$$(2) \text{名义GDP}_{(2017)} = 110 \times 10 + 200 \times 1.5 + 450 \times 1 = 1850 (\text{美元})$$

$$(3) \text{实际GDP}_{(2016)} = 1450 (\text{美元})$$

$$\text{实际GDP}_{(2017)} = 110 \times 10 + 200 \times 1 + 450 \times 0.5 = 1525 (\text{美元})$$

$$\frac{1525 - 1450}{1450} \times 100\% \approx 5.17\%$$

$$(4) \text{实际GDP}_{(2016)} = 100 \times 10 + 200 \times 1.5 + 500 \times 1 = 1800 (\text{美元})$$

$$\text{实际GDP}_{(2017)} = 1850 (\text{美元})$$

$$\frac{1850 - 1800}{1800} \times 100\% \approx 2.78\%$$

(5) 不对。不完全取决于基期价格，最主要还是产品数量、价格的变化。

$$(6) \text{GDP折算指数}_{(2016)} = \frac{1450}{1450} \times 100\% = 100\%$$

$$\text{GDP折算指数}_{(2017)} = \frac{1850}{1525} \times 100\% \approx 121.31\%$$



T_2

$$(1) \text{ NDP} = \text{GDP} - \text{折旧} \\ = \text{GDP} - (\text{总投资} - \text{净投资}) = 4300 (\text{亿美元})$$

$$(2) \text{ GDP} = C + I + G + NX$$

$$\therefore NX = 4800 - 3000 - 800 - 960 = 40 (\text{亿美元})$$

$$(3) BS = T - G$$

$$\therefore T = BS + G = 30 + 960 = 990 (\text{亿美元})$$

$$(4) \text{ DPI} = \text{NDP} - T = 4300 - 990 = \overset{3310}{\cancel{3400}} (\text{亿美元})$$

$$(5) S = \text{DPI} - C = 3310 - 3000 = 310 (\text{亿美元})$$

T_3

$$(1) S_p = \text{DPI} - C = 4100 - 3000 = 1100 (\text{亿元})$$

$$(2) S_g = T - G = BS = -200 (\text{亿元})$$

$$S_r = M - X = 100 (\text{亿元})$$

$$I = S_p + S_g + S_r = 1000 (\text{亿元})$$

$$(3) \text{ GDP} = C + I + G + NX$$

$$\therefore G = 5000 - 3000 - 1000 + 100 = 1100 (\text{亿元})$$



T₄

$$(1) NI = 500 + 250 + 25 + 140 + 200 = 1115 \text{ (亿美元)}$$

$$(2) NDP = NI + \text{间接税} = 1115 + 15 = 1130 \text{ (亿美元)}$$

$$(3) GDP = NDP + \text{折旧} = 1130 + 20 = 1150 \text{ (亿美元)}$$

$$(4) PI = NI - \text{社会保险金} - \text{公司利润} + \text{政府转移支付} + \text{红利} \\ = 1115 - 10 - 250 + 50 + 100 = 1005 \text{ (亿美元)}$$

附加练习

$$T_1 (1) 1.34 \text{ 亿} + 860 \text{ 万} = 1.426 \text{ 亿}$$

$$(2) \text{成年人数} = 1.426 \text{ 亿} + 7090 \text{ 万} = 2.135 \text{ 亿}$$

$$\frac{1.426}{2.135} \times 100\% \approx 66.79\%$$

$$(3) \frac{0.086}{1.426} \times 100\% \approx 6.03\%$$

T₂

$$(1) GDP_{(2001)} = 10 \times 9 + 5 \times 6 = 120$$

$$GDP_{(2002)} = 12 \times 10 + 6 \times 8 = 168$$

$$GDP_{(2003)} = 10 \times 12 + 8 \times 10 = 200$$

$$(2) \text{实际 } GDP_{(2001)} = 120$$

$$\text{实际 } GDP_{(2002)} = 10 \times 10 + 8 \times 5 = 140$$

$$\text{实际 } GDP_{(2003)} = 12 \times 10 + 10 \times 5 = 170$$

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$$(3) \text{ GDP平减指数}_{(2001)} = \frac{120}{120} \times 100\% = 100\%$$

$$\text{GDP平减指数}_{(2002)} = \frac{168}{140} \times 100\% = 120\%$$

$$\text{GDP平减指数}_{(2003)} = \frac{200}{170} \times 100\% \approx 117.65\%$$

$$\text{通胀率}_{(2002)} = \frac{120\% - 100\%}{100\%} = 20\%$$

$$\text{通胀率}_{(2003)} = \frac{117.65\% - 120\%}{120\%} \approx -1.96\%$$

$$(4) \text{ CPI}_{(2002)} = \frac{2 \times 12 + 1 \times 6}{2 \times 10 + 1 \times 5} \times 100\% = 120\%$$

$$\text{CPI}_{(2003)} = \frac{2 \times 10 + 1 \times 8}{2 \times 10 + 1 \times 5} \times 100\% = 112\%$$

计算CPI时产量不同

$$T_3 \quad (1) \text{ CPI}_{(2010)} = 100\% \quad \text{CPI}_{(2011)} = \frac{50 \times 5 + 20 \times 150 + 80 \times 3}{50 \times 4 + 20 \times 100 + 80 \times 2} \times 100 = 147.9$$

$$\text{CPI}_{(2012)} = \frac{50 \times 6 + 20 \times 300 + 80 \times 2}{50 \times 4 + 20 \times 100 + 80 \times 2} = 273.37$$

$$(2) \text{ 通胀率}_{2011} = \frac{\text{CPI}_{(2011)} - \text{CPI}_{(2010)}}{\text{CPI}_{(2010)}} \times 100\% = 47.9\%$$

$$\text{通胀率}_{2012} = \frac{\text{CPI}_{(2012)} - \text{CPI}_{(2011)}}{\text{CPI}_{(2011)}} \times 100\% = 85.06\%$$

(3) 衣服。因为三个商品中衣服的价格变化最大。

$$(4) \text{ CPI}_{(2010)} = 100 \quad \text{CPI}_{(2011)} = \frac{50 \times 5 + 20 \times 150 + 80 \times 3 + 5000 \times \frac{1}{2}}{50 \times 4 + 20 \times 100 + 80 \times 2} \times 100 = 253.81$$

$$\text{CPI}_{(2012)} = \frac{50 \times 6 + 20 \times 300 + 80 \times 2 + 10000}{50 \times 4 + 20 \times 100 + 80 \times 2} \times 100 = 697.46$$

