0 6 Figure 6 shows the transfer of energy through a cow. The values are in $kJ \times 10^6$ per year.



Key: C = energy consumed in food

- **F** = energy lost in faeces and urine
- **P** = energy used in production of new tissue
- **R** = energy lost by respiration
- **06.1** Complete the following equation for energy used in the production of new tissue. Use the letters **C**, **F** and **R**.

		[1 mark]
P =		

(0 6). **(2)** Calculate the value of **P** using the values given in **Figure 6**.

[1 mark]

P = _____ kJ × 10⁶ per year

06.3 It has been estimated that an area of 8100 m² of grassland is needed to keep one cow. The productivity of grass is 21 135 kJ/m²/year.

Calculate the percentage of the energy in the grass that is used in the production of new tissue in one cow. Show your working.

[2 marks]

Answer:	%