1   Falla buys 3000 square metres of land for a house and garden.
    The garden is divided into areas for flowers, vegetables and grass.

    He divides the land in the following ratio.

    house : flowers : vegetables : grass = 4 : 7 : 8 : 5

    (a) (i)   Show that the area of land used for flowers is 875 m².

    Answer(a)(i)

    $$\frac{7}{4+7+8+5} \times 3000 \text{ m}^2 = \frac{7}{24} \times 3000 \text{ m}^2$$
    $$= 875 \text{ m}^2$$

    [2]

    (ii)   Calculate the area of land used for the house.

    $$\frac{4}{4+7+8+5} \times 3000 \text{ m}^2 = \frac{4}{24} \times 3000 \text{ m}^2$$
    $$= 500 \text{ m}^2$$

    Answer(a)(ii) ....500............ m² [2]

    (b)   Write down the fraction of land used for vegetables.
    Give your answer in its simplest form.

    $$\frac{8}{4+7+8+5} = \frac{8}{24}$$
    $$= \frac{8 \div 8}{24 \div 8}$$
    $$= \frac{1}{3}$$

    Answer(b) ....$\frac{1}{3}$............ [2]