

⑤

enlargement scale x_i	50000	20000
enlarged length y_i	5 cm	y_2

$\therefore x$ and y are directly proportional

$$\frac{x_1}{y_1} = \frac{x_2}{y_2}$$

$$\frac{50000}{5} = \frac{20000}{y_2}$$

$$\Rightarrow y_2 = \frac{20000 \times 5}{50000}$$

$$\Rightarrow y_2 = 2 \text{ cm}$$

⑥

actual size $(\text{in cm}) x_i$	1200	2800
Size on Map $(\text{in cm}) y_i$	9	y_2

x and y are directly proportional

$$\frac{x_1}{y_1} = \frac{x_2}{y_2}$$

$$\frac{12000}{9} = \frac{28000}{y_2}$$

$$\Rightarrow y_2 = \frac{2800 \times 9}{1200}$$

$$\Rightarrow y_2 = 21$$