

1. $0.\dot{3}0 = a \times 0.\dot{0}1$, $0.\dot{3}0\dot{0} = b \times 0.\dot{0}0\dot{1}$ 일 때, $|a - b|$ 의 값은?

① 150 ② 220 ③ 270 ④ 320 ⑤ 350

해설

$$0.\dot{3}0 = \frac{30}{99} = 30 \times \frac{1}{99} = 30 \times 0.\dot{0}1$$

$$\therefore a = 30$$

$$0.\dot{3}0\dot{0} = \frac{300}{999} = 300 \times \frac{1}{999} = 300 \times 0.\dot{0}0\dot{1}$$

$$\therefore b = 300$$

$$\therefore |a - b| = |30 - 300| = 270$$