

Incorrect. Factor the numerators and denominators. Regroup common factors in the same fraction.

$$\frac{x^2 - 64}{x^2 + 7x - 30} \cdot \frac{x - 3}{x - 8} = \frac{(x + 8)(x - 8)}{(x - 3)(x + 10)} \cdot \frac{x - 3}{x - 8}$$

Simplify by regrouping common factors in the same fraction and reducing to 1. The correct answer is 10.