

Incorrect. Factor the numerators and denominators.

$$\frac{9a}{4} \cdot \frac{8}{15a^2} = \frac{3 \cdot 3 \cdot a}{2 \cdot 2} \cdot \frac{2 \cdot 2 \cdot 2}{3 \cdot 5 \cdot a \cdot a}$$

Regroup so that the common factors on top and bottom are in one fraction. This can be reduced to 1. Multiply the simplified expressions.