

Q6.

A) $(A \times B) \times C$ $7 \times 15 \times 3 = 315$

$$\begin{matrix} A & \times & B \\ 7 \times 3 & & 3 \times 8 \end{matrix}$$

$$7 \times 3 \times 8 = 168$$

$$315 + 168 = 483$$

$$A \times (B \times C)$$

$$15 \times 3 \times 8 = 360$$

$$\begin{matrix} A & \times & B \\ 7 \times 15 & & 15 \times 8 \end{matrix}$$

$$7 \times 15 \times 8 = 840$$

$$360 + 840 = 1200$$

B) 483 addition operation is needed when multiplying matrices