

Building LCM (Least Common Multiples)

✓ ① 10 and 15

$$✓ 10 = \underline{2} \cdot \underline{5}$$

$$✓ 15 = \underline{3} \cdot \underline{5}$$

$$\begin{array}{l} 2 \cdot 5 \cdot 3 = \textcircled{30} \\ \downarrow \quad \downarrow \\ 7 \quad 10 \cdot 3 = \end{array}$$

✓ ② 12 and 10

$$* 12 = 2 \cdot 2 \cdot 3$$

$$✓ 10 = \underline{2} \cdot \underline{5}$$

$$\begin{array}{l} 2 \cdot 2 \cdot 3 \cdot 5 = \textcircled{60} \\ \swarrow \quad \downarrow \quad \swarrow \quad \downarrow \\ 4 \quad 15 \end{array}$$

✓ ③ $2X$ and $6X$

$$* 2X = \underline{2} \cdot \underline{X}$$

$$2 \cdot X \cdot 3 = \textcircled{6X}$$

$$\underline{6}X = \underline{2} \cdot \underline{3} \cdot \underline{X}$$

✓ ④ $9x^2$ and $3x^3$

$$* 9x^2 = 3 \cdot 3 \cdot X \cdot X$$

$$3 \cdot 3 \cdot \underline{X \cdot X \cdot X} = \textcircled{9x^3}$$

$$✓ 3x^3 = \underline{3} \cdot \underline{X \cdot X \cdot X}$$

✓ ⑤ $14x^3$ and $7x^2$

$$* 14x^3 = 2 \cdot 7 \cdot X \cdot X \cdot X$$

$$2 \cdot \underline{7} \cdot X \cdot X \cdot X = \textcircled{14x^3}$$

$$✓ 7x^2 = \underline{7} \cdot \underline{X \cdot X}$$