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| **Topic/Skill**  | **Definition/Tips** | **Example****Topic: Standard Form**  |
| 1. Standard Form | $$A × 10^{b}$$$$where 1\leq A<10, b=integer$$ | 8400 = 8.4 x $10^{3}$0.00036 = 3.6 x $10^{-4}$ |
| 2. Multiplying or Dividing with Standard Form | Multiply: **Multiply the numbers** and **add the powers**.Divide: **Divide the numbers** and **subtract the powers**. | $$\left(1.2×10^{3}\right)×\left(4×10^{6}\right)=8.8×10^{9}$$$$\left(4.5×10^{5}\right)÷\left(3×10^{2}\right)=1.5×10^{3}$$ |
| 3. Adding or Subtracting with Standard Form | **Convert** in to **ordinary** numbers, **calculate** and then **convert back** in to standard form | $$2.7×10^{4}+4.6×10^{3}$$$$=27000+4600=31600$$$$=3.16×10^{4}$$ |

**Knowledge Organiser**