

$$(24) \quad \frac{5.2 \times 10^3}{1.3 \times 10^7} = \frac{5.2}{1.3} \times 10^{3-7} = \underline{\underline{4 \times 10^6}}$$

$$(25) \quad \frac{3.6 \times 10^{-10}}{9 \times 10^{-6}} = \frac{3.6}{9} \times 10^{-10-(-6)} = 0.4 \times 10^{-4} = \underline{\underline{4 \times 10^{-5}}}$$

$$(26) \quad \frac{6.5 \times 10^4}{5 \times 10^6} = \frac{6.5}{5} \times 10^{4-6} = \underline{\underline{1.3 \times 10^{-2}}}$$

$$(27) \quad \frac{8.4 \times 10^{-5}}{2 \times 10^{-8}} = \frac{8.4}{2} \times 10^{-5-(-8)} = \underline{\underline{4.2 \times 10^3}}$$

$$(28) \quad \frac{4.65 \times 10^{-4}}{3.1 \times 10^2} = \frac{4.65}{3.1} \times 10^{-4-2} = \underline{\underline{1.5 \times 10^{-6}}}$$

$$(29) \quad \frac{3.5 \times 10^6}{5 \times 10^9} = \frac{3.5}{5} \times 10^{6-9} = 0.7 \times 10^{-2} = \underline{\underline{7 \times 10^{-3}}}$$

$$(33) \quad \left(\frac{3}{8}\right)^2 = \frac{3^2}{8^2} = \underline{\underline{\frac{9}{64}}}$$

$$(35) \quad \left(\frac{3x}{y}\right)^4 = \frac{3^4 x^4}{y^4} = \underline{\underline{\frac{81x^4}{y^4}}}$$

$$(37) \quad \left(\frac{6}{5^2}\right)^3 = \frac{6^3}{5^6} = \underline{\underline{\frac{216}{15625}}}$$

$$(39) \quad \left(\frac{8}{n^5}\right)^6 = \frac{8^6}{n^{30}} = \underline{\underline{\frac{262144}{n^{30}}}}$$

$$(41) \quad \left(\frac{2}{5}\right)^{-1} = \frac{2^{-1}}{5^{-1}} = \underline{\underline{\frac{5}{2}}}$$

$$(43) \quad \left(\frac{7x^5}{5y^4}\right)^{-2} = \frac{7^{-2} x^{-10}}{5^{-2} y^{-8}} = \underline{\underline{\frac{25y^8}{49x^{10}}}}$$

- ④⑨ The 5^3 can be simplified to 125.
- ⑤⑩ Must have positive exponents only
- ⑤⑪ Exponent must be applied to each item.
- ⑤⑫ Anything to zero power is one.
- ⑤⑬ Simplify 2 of same variables to one.