

$$\textcircled{12} \quad \frac{3^8}{3^6} = 3^{8-6} = 3^2 = \underline{\underline{9}} \quad \textcircled{13} \quad \frac{3^6}{3^8} = 3^{6-8} = 3^{-2} = \frac{1}{3^2} = \underline{\underline{\frac{1}{9}}}$$

$$\textcircled{14} \quad \frac{d^{14}}{d^{17}} = d^{14-17} = d^{-3} = \underline{\underline{\frac{1}{d^3}}} \quad \textcircled{15} \quad \frac{n^{-1}}{n^{-4}} = n^{-1-(-4)} = n^{-1+4} = \underline{\underline{n^3}}$$

$$\textcircled{16} \quad \frac{5s^7}{10s^{-9}} = \frac{5}{10} \cdot s^{7-(-9)} = \frac{1}{2} \cdot s^{7+9} = \frac{1}{2} \cdot s^{16} = \underline{\underline{\frac{s^{16}}{2}}}$$

$$\textcircled{17} \quad \frac{x^{11}y^3}{x^{11}y} = x^{11-11}y^{3-1} = x^0y^2 = \underline{\underline{y^2}}$$

$$\textcircled{18} \quad \frac{cd^{-5}}{c^4d^{-1}} = c^{1-4}d^{-5-(-1)} = c^{-3}d^{-5+1} = c^{-3}d^{-4} = \underline{\underline{\frac{1}{c^3d^4}}}$$

$$\textcircled{19} \quad \frac{10m^6n^3}{5m^2n^7} = \frac{10}{5} \cdot m^{6-2}n^{3-7} = 2 \cdot m^4n^{-4} = \underline{\underline{\frac{2m^4}{n^4}}}$$

$$\textcircled{20} \quad \frac{m^3n^2}{m^{-1}n^3} = m^{3-(-1)}n^{2-3} = m^{3+1}n^{2-3} = m^4n^{-1} = \underline{\underline{\frac{m^4}{n}}}$$

$$\textcircled{21} \quad \frac{3^2m^5t^6}{3^5m^7t^{-5}} = 3^{2-5}m^{5-7}t^{6-(-5)} = 3^{-3}m^{-2}t^{11} = \frac{t^{11}}{3^3m^2} = \underline{\underline{\frac{t^{11}}{27m^2}}}$$

$$\textcircled{22} \quad \frac{x^5y^{-8}z^3}{xy^{-4}z^3} = x^{5-1}y^{-8-(-4)}z^{3-3} = x^4y^{-4}z^0 = \underline{\underline{\frac{x^4}{y^4}}}$$

$$\textcircled{23} \quad \frac{12a^{-1}b^6c^{-3}}{4a^5b^{-1}c^5} = \frac{12}{4} \cdot a^{-1-5}b^{6-(-1)}c^{-3-5} = 3a^{-6}b^7c^{-8} = \underline{\underline{\frac{3b^7}{a^6c^8}}}$$