

PROPIEDADES DE LAS POTENCIAS

1. Simplifica usando las propiedades de las potencias y calcula:

Aclaraciones:

- En la casilla verde del apartado a) pon el resultado simplificado de la fracción anterior.
- En la casilla naranja del apartado e) “da la vuelta a la fracción”.

$$\begin{aligned}
 \text{a)} \quad \left(\frac{5}{6}\right)^{-2} : \left(\frac{5}{12}\right)^{-2} &= \left(\frac{\boxed{}}{\boxed{}} \boxed{} \frac{\boxed{}}{\boxed{}}\right)^{\boxed{}} = \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}} = \\
 &= \boxed{}^{\boxed{}} = \frac{\boxed{}}{\boxed{}} = \boxed{\frac{\boxed{}}{\boxed{}}}
 \end{aligned}$$

$$\begin{aligned}
 \text{b)} \quad 8^5 : 2^6 &= \left(\boxed{}^{\boxed{}}\right)^{\boxed{}} : \boxed{}^{\boxed{}} = \\
 &= \boxed{}^{\boxed{}}\boxed{}\boxed{}\boxed{} : \boxed{}^{\boxed{}} = \boxed{}^{\boxed{}} : \boxed{}^{\boxed{}} = \\
 &= \boxed{}^{\boxed{}}\boxed{}\boxed{}\boxed{} = \boxed{}^{\boxed{}} = \boxed{}
 \end{aligned}$$

$$\begin{aligned}
 \text{c)} \quad \frac{7^{-8}}{(7^4)^{-2} \cdot 7^{-1}} &= \frac{\boxed{}^{\boxed{}}}{\boxed{}\boxed{}\boxed{}\boxed{} \cdot \boxed{}^{\boxed{}}} = \\
 &= \frac{\boxed{}^{\boxed{}}}{\boxed{}^{\boxed{}}\boxed{}^{\boxed{}}} = \frac{\boxed{}^{\boxed{}}}{\boxed{}\boxed{}\boxed{}} = \\
 &= \boxed{}^{\boxed{}}\boxed{}\boxed{} = \boxed{}^{\boxed{}} = \boxed{}
 \end{aligned}$$

$$\begin{aligned}
 \text{d)} \quad 5^3 \cdot 2^3 \cdot 10^{-5} &= (\square \square \square)^{\square} \cdot \square^{\square} = \\
 &= \square^{\square} \cdot \square^{\square} = \square^{\square \square \square} = \square^{\square} = \\
 &= \frac{\square}{\square} = \boxed{\frac{\square}{\square}}
 \end{aligned}$$

$$\begin{aligned}
 \text{e)} \quad \frac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{5}{3}\right)^{-2}}{\left(\frac{3}{5}\right)^8} &= \frac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{\square}{\square}\right)^{\square}}{\left(\frac{3}{5}\right)^8} = \frac{\left(\frac{\square}{\square}\right)^{\square \square \square}}{\left(\frac{\square}{\square}\right)^{\square}} = \\
 &= \frac{\left(\frac{\square}{\square}\right)^{\square}}{\left(\frac{\square}{\square}\right)^{\square}} = \left(\frac{\square}{\square}\right)^{\square \square \square} = \left(\frac{\square}{\square}\right)^{\square} = \\
 &= \left(\frac{\square}{\square}\right)^{\square} = \boxed{\frac{\square}{\square}}
 \end{aligned}$$