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".

a)

$$\left(\frac{5}{6}\right)^{-2} : \left(\frac{5}{12}\right)^{-2} = \left(\frac{\Box}{\Box} \Box \frac{\Box}{\Box}\right)^{\Box} = \left(\frac{\Box}{\Box}\right)^{\Box} =$$

$$= \boxed{}^{\Box} = \frac{\Box}{\Box^{\Box}} = \frac{\Box}{\Box}$$

b)

$$8^5 : 2^6 = \left(\Box^{\Box}\right)^{\Box} : \Box^{\Box} =$$

$$= \Box^{\Box\,\Box} : \Box^{\Box} = \Box^{\Box} : \Box^{\Box} =$$

$$= \Box^{\Box\,\Box} = \Box^{\Box} = \boxed{}$$

c)

$$\frac{7^{-8}}{(7^4)^{-2} \cdot 7^{-1}} = \frac{\Box^{\Box}}{\Box^{\Box\,\Box\,\Box} \cdot \Box^{\Box}} =$$

$$= \frac{\Box^{\Box}}{\Box^{\Box} \cdot \Box^{\Box}} = \frac{\Box^{\Box}}{\Box^{\Box\,\Box\,\Box}} = \frac{\Box^{\Box}}{\Box^{\Box}} =$$

$$= \Box^{\Box\,\Box\,\Box} = \Box^{\Box} = \boxed{}$$

d)
$5^3 \cdot 2^3 \cdot 10^{-5} = \left(\boxed{}\ \boxed{}\ \boxed{} \right)^{\boxed{}} \cdot \boxed{}^{\boxed{}} =$

$= \boxed{}^{\boxed{}} \cdot \boxed{}^{\boxed{}} = \boxed{}^{\boxed{}\ \boxed{}\ \boxed{}} = \boxed{}^{\boxed{}} =$

$= \dfrac{\boxed{}}{\boxed{}^{\boxed{}}} = \dfrac{\boxed{}}{\boxed{}}$

e)
$\dfrac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{5}{3}\right)^{-2}}{\left(\frac{3}{5}\right)^8} = \dfrac{\left(\frac{3}{5}\right)^4 \cdot \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}}}{\left(\frac{3}{5}\right)^8} = \dfrac{\left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}\ \boxed{}\ \boxed{}}}{\left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}}} =$

$= \dfrac{\left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}}}{\left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}}} = \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}\ \boxed{}\ \boxed{}} = \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}} =$

$= \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}} = \dfrac{\boxed{}}{\boxed{}}$