

Escuela Normal Juan Demóstenes Arosemena
Radicación en los números Reales



Profesora: Maydeé Zambrano Núñez

Estudiante: _____ 8° _____

Aplique las propiedades y resuelva hasta que la expresión sea irreducible.

Ejemplos:

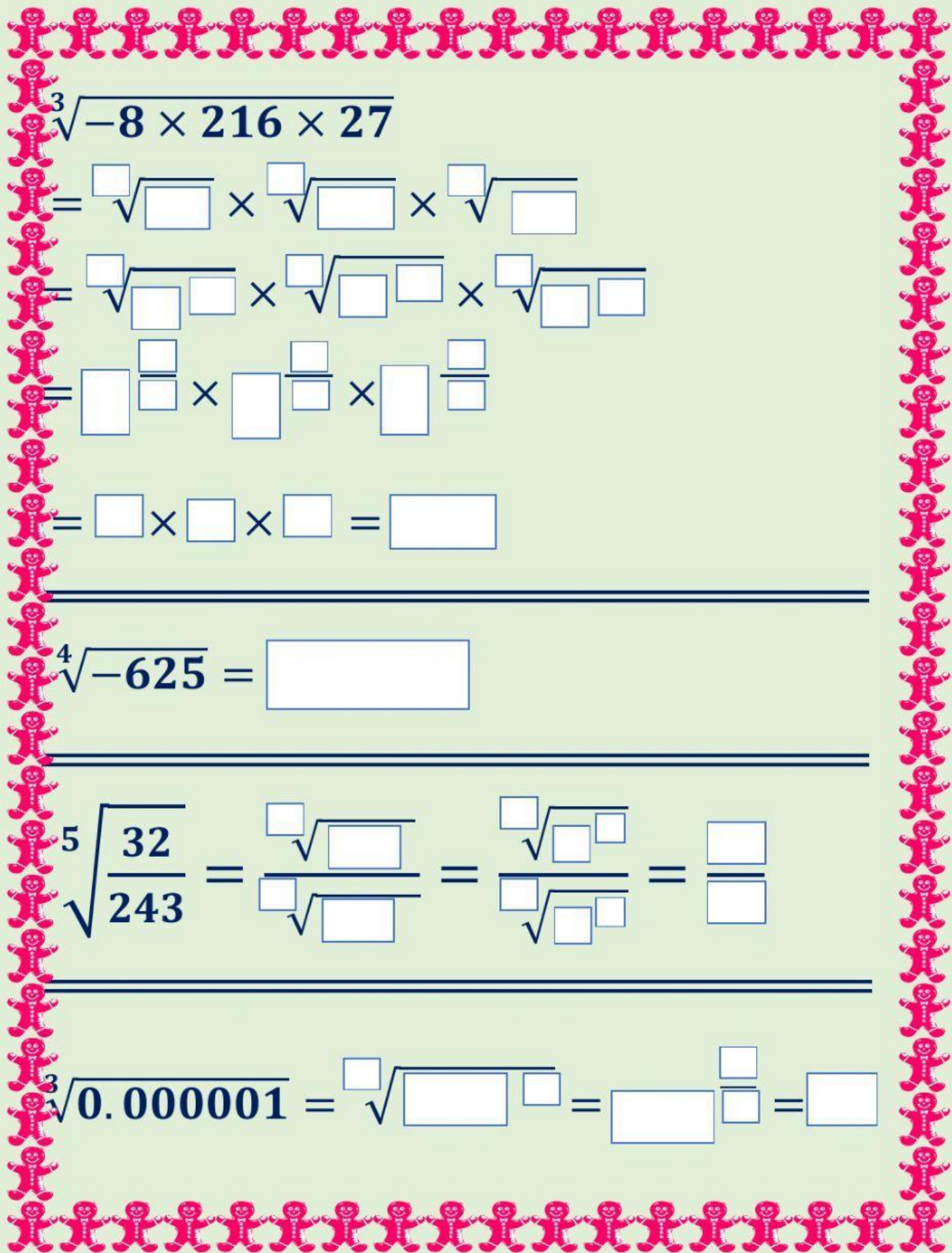
$$\sqrt[4]{81} = \sqrt[4]{3^4} = \pm 3^{\frac{4}{4}} = \pm 3$$

$$\sqrt[3]{0.000008} = \sqrt[3]{(0.02)^3} = (0.02)^{\frac{3}{3}} = (0.02)$$

Para calcular los decimales que tiene la respuesta contamos la cantidad de los decimales que tiene la cantidad subradical y lo dividimos entre el índice de esa raíz, esa es la cantidad de decimales que tendrá la respuesta.

$$\sqrt[5]{\sqrt[4]{8}} = \sqrt{\quad}$$

$$\sqrt[4]{\frac{81}{16}} = \frac{\sqrt{\quad}}{\sqrt{\quad}} = \frac{\sqrt{\quad}}{\sqrt{\quad}} = \pm \frac{\quad}{\quad} \pm \frac{\quad}{\quad}$$



$$\sqrt[3]{-8 \times 216 \times 27}$$

$$= \sqrt[\square]{\square} \times \sqrt[\square]{\square} \times \sqrt[\square]{\square}$$

$$= \sqrt[\square]{\square \square} \times \sqrt[\square]{\square \square} \times \sqrt[\square]{\square \square}$$

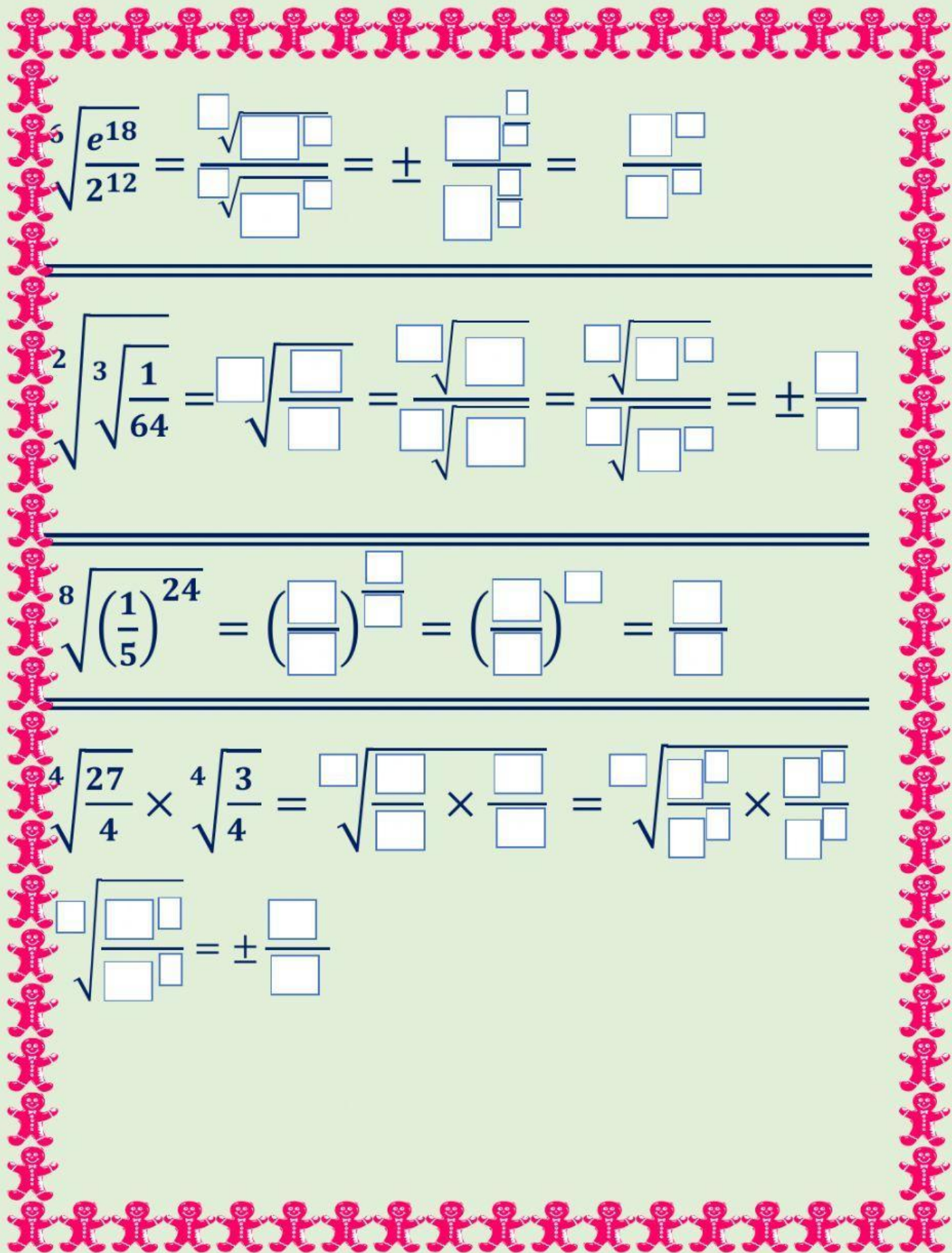
$$= \square^{\frac{\square}{\square}} \times \square^{\frac{\square}{\square}} \times \square^{\frac{\square}{\square}}$$

$$= \square \times \square \times \square = \square$$

$$\sqrt[4]{-625} = \square$$

$$\sqrt[5]{\frac{32}{243}} = \frac{\sqrt[\square]{\square}}{\sqrt[\square]{\square}} = \frac{\sqrt[\square]{\square \square}}{\sqrt[\square]{\square \square}} = \frac{\square}{\square}$$

$$\sqrt[3]{0.000001} = \sqrt[\square]{\square \square} = \square^{\frac{\square}{\square}} = \square$$



$$\sqrt[6]{\frac{e^{18}}{2^{12}}} = \frac{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}} = \pm \frac{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}} = \frac{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}$$

$$\sqrt[2]{3\sqrt{\frac{1}{64}}} = \sqrt[\quad]{\frac{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}{\boxed{}}} = \frac{\sqrt[\quad]{\frac{\sqrt[\quad]{\boxed{}}}{\boxed{}}}}{\sqrt[\quad]{\frac{\sqrt[\quad]{\boxed{}}}{\boxed{}}}} = \pm \frac{\sqrt[\quad]{\boxed{}}}{\sqrt[\quad]{\boxed{}}}$$

$$\sqrt[8]{\left(\frac{1}{5}\right)^{24}} = \left(\frac{\boxed{}}{\boxed{}}\right)^{\frac{\boxed{}}{\boxed{}}} = \left(\frac{\boxed{}}{\boxed{}}\right)^{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

$$\sqrt[4]{\frac{27}{4}} \times \sqrt[4]{\frac{3}{4}} = \sqrt[\quad]{\frac{\boxed{}}{\boxed{}}} \times \frac{\boxed{}}{\boxed{}} = \sqrt[\quad]{\frac{\boxed{}}{\boxed{}}} \times \frac{\sqrt[\quad]{\boxed{}}}{\sqrt[\quad]{\boxed{}}}$$

$$\sqrt[\quad]{\frac{\sqrt[\quad]{\frac{\boxed{}}{\boxed{}}}}{\boxed{}}} = \pm \frac{\sqrt[\quad]{\boxed{}}}{\sqrt[\quad]{\boxed{}}}$$

$$\sqrt[2]{\frac{25}{36} \times \frac{49}{81}} = \sqrt{\frac{\square}{\square}} \times \sqrt{\frac{\square}{\square}} = \frac{\sqrt{\square}}{\sqrt{\square}} \times \frac{\sqrt{\square}}{\sqrt{\square}}$$

$$= \frac{\sqrt{\square} \times \sqrt{\square}}{\sqrt{\square} \times \sqrt{\square}} = \frac{\sqrt{\square} \times \sqrt{\square}}{\sqrt{\square} \times \sqrt{\square}} \times \frac{\sqrt{\square} \times \sqrt{\square}}{\sqrt{\square} \times \sqrt{\square}}$$

$$= \pm \frac{\frac{\square}{\square} \times \frac{\square}{\square}}{\frac{\square}{\square} \times \frac{\square}{\square}} \times \frac{\frac{\square}{\square} \times \frac{\square}{\square}}{\frac{\square}{\square} \times \frac{\square}{\square}}$$

$$= \pm \frac{\frac{\square}{\square} \times \frac{\square}{\square}}{\frac{\square}{\square} \times \frac{\square}{\square} \times \frac{\square}{\square}} = \pm \frac{\square}{\square}$$