

**Exercise 49**

For the following exercises, simplify the expression.

$$\left(\frac{4}{9}\right)^2 \times 27x$$

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**Solution**

Use the order of operations to simplify the given expression.

$$\left(\frac{4}{9}\right)^2 \times 27x$$

$$\left(\frac{4^2}{9^2}\right) \times 27x$$

$$\frac{16}{81} \times 27x$$

$$\frac{16}{3} \times x$$

$$\frac{16x}{3}$$