## 3 TAKS PREPARATION

TEKS 8.1.B REVIEWING FRACTION, DECIMAL, AND PERCENT PROBLEMS

Use the following table to help you convert between fractions, decimals, and percents.

| Conversion | Example |
| :--- | :---: |
| To write a decimal as a percent, move <br> the decimal point two places to the right <br> and include a percent symbol. | $0.7=0.70=70 \%$ |
| To write a fraction as a percent, rewrite <br> the fraction using a denominator of 100. | $\frac{3}{5}=\frac{3(20)}{5(20)}=\frac{60}{100}=60 \%$ |
| To write a percent as a decimal, move <br> the decimal point two places to the left <br> and remove the percent symbol. | $22 \%=22 \%=0.22$ |
| To write a fraction as a decimal, divide <br> the numerator by the denominator. | $\frac{7}{8}=7 \div 8=0.875$ |

## EXAMPLE

Maria, Jose, Tom, and Liz painted the outside of a house that has an area of 2600 square feet. Maria painted one-fifth of the area, Jose painted 0.25 of the area, Tom painted $29 \%$ of the area, and Liz painted the remaining area of the house. Who painted the greatest area of the house?

## Solution

STEP 1 Write the area that was painted by each of the four people as a percent.
Portion painted by Maria $=\frac{1}{5}=\frac{20}{100}=20 \%$
Portion painted by Jose $=0.25=25 \%$
Portion painted by Tom $=29 \%$
Portion painted by Liz $=100 \%-20 \%-25 \%-29 \%=26 \%$
STEP 2 Compare the percents.

- Because $29 \%$ is greatest, Tom painted the greatest area of the house.

CHECK Find the actual area painted by each person.
Area painted by Maria $=0.2(2600)=520 \mathrm{ft}^{2}$
Area painted by Jose $=0.25(2600)=650 \mathrm{ft}^{2}$
Area painted by Tom $=0.29(2600)=754 \mathrm{ft}^{2}$
Area painted by Liz $=0.26(2600)=676 \mathrm{ft}^{2}$
The calculations show that Tom painted the greatest area.

