Mowing the Lawn

Last Saturday, three sisters mowed the lawn in their backyard. Solange starts the mower first and completes 1/3 of the lawn. Then Jane takes over and mows exactly 1/4 of the grass. Denise then finishes off the last 700 square feet of the yard.

1. What do you notice?

Why called lawn, grass, yard, backyard.

\[
\begin{array}{cccc}
\frac{1}{3} & \frac{1}{4} & \frac{7}{12} & 700 \\
\frac{4}{12} & + & \frac{3}{12} & = \frac{7}{12} \\
700 & + & \frac{1}{3} & + \frac{1}{4} \\
420 & \div & 6 & = 700 \\
840 & \div & 12 & = 700 \frac{8}{12}
\end{array}
\]

2. What questions could you ask?

- How big is the lawn?
- Why are three different words used to describe this lawn?
- Who mowed the most?
- What is the area.

\[
\begin{array}{cccc}
700 & 980 \\
\frac{16}{12} & = 700 \frac{5}{12}
\end{array}
\]

\[
\begin{array}{cccc}
1680 & 980 \\
5 & 140
\end{array}
\]
What is the area?

\[ \frac{1}{3} \times \frac{3}{12} = \frac{3}{12} \]

\[ \frac{1}{3} \times \frac{4}{12} = \frac{4}{12} \]

\[ \frac{7}{12} \]

Jane, Solange
\[
\frac{1}{3} + \frac{1}{4} = \frac{7}{12} = \frac{6407}{7200}
\]

\[
\frac{3}{12} + \frac{4}{12} = \frac{7 + 5}{12} = \frac{12}{12} = 1
\]

\[
980
\]

\[
700 + 700 = 1400
\]

\[
\frac{700 + 700}{1680}
\]
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1. What do you notice?

I notice that all of them took different parts of lawn in their backyard.

2. What questions could you ask?

How many square feet in their backyard in total?
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1. What do you notice?

\[
\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}
\]

Solange did less than same.

2. What questions could you ask?

Denise did more.

\[
\frac{1}{12} \times 700 = \frac{700}{12} = \frac{350}{6} = 58.33\text{ ft}^2
\]
\[
\frac{1}{3} + \frac{1}{4} = \frac{7}{12} = \frac{7}{12}
\]

\[
\frac{3}{12} + \frac{4}{12} = \frac{7}{12} + \frac{5}{12} = \frac{12}{12} = 1
\]

\[
\frac{980}{160 + 140} = \frac{980}{700} = \frac{11}{10} = 1.1
\]

\[
700 + 700 = 1400
\]

\[
\frac{580}{580} = \frac{580}{580} = \frac{1680}{1680}
\]