A simple way to format a system of aligned equations or inequalities, like this:

$$a+b+m+s=26$$

$$6 \leq a$$

$$4 \leq b$$

$$5 \leq m$$

$$3 \leq s \leq 5$$

is by using the align environment:

```
\begin{align*}
    a+b+s &= 26 \\
    6 &\le a \\
    4 &\le b \\
    3 &\le s\le 5
\end{align*}
```

If you want something more fancy, like this:

$$\begin{cases} a+b+m+s=26\\ 6\leq a\\ 4\leq b\\ 3\leq s\leq 5 \end{cases}$$

you can use the equation environment as follows:

```
\begin{equation*}
\begin{cases}
\begin{aligned}
  a+b+m+s &= 26 \\
        6 &\le a \\
        4 &\le b \\
        3 &\le s\le 5
\end{aligned}
\end{cases}
\end{equation*}
```

In particular, one student asked me how to do this:

$$\begin{cases} a+b+s=26 \\ 6 \leq a \\ 4 \leq b \\ 3 \leq s \leq 5 \end{cases} \qquad \Longrightarrow \qquad \begin{cases} a+b+s=26 \\ 6 \leq a \\ 4 \leq b \\ 3 \leq s \leq 5 \end{cases}$$

Here is the LATEXcode:

```
\begin{minipage}{1.25in}
\begin{equation*}
\begin{cases}
\begin{aligned}
 a+b+s &= 26 \\
       6 &\le a \\
       4 &\le b \\
        3 \& \le 5
\end{aligned}
\end{cases}
\end{equation*}
\end{minipage}
\hspace{0.1in}
{\Huge $\Rightarrow$ }
\hspace{0.1in}
%
%
\begin{minipage}{1.25in}
\begin{equation*}
\begin{cases}
\begin{aligned}
 a+b+s &= 26 \\
       6 &\le a \\
       4 &\le b \\
        3 \& \le 5
\end{aligned}
\end{cases}
\end{equation*}
\end{minipage}
```