$$
a x=b
$$

## $a x=b$

## - Start <br> End

## $a x=b$

- $a \neq 0$


## - Start <br> ```End```

## $a x=b$

- $a \neq 0$
$a x \times \frac{1}{a}=b \times \frac{1}{a}$


## - Start <br> ```* End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$


## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$
$0 \times x=b$


## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

There is no solution.

## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

There is no solution.

- $a=0, b=0$


## - Start <br> ```End```

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

There is no solution.

- $a=0, b=0$
$0 \times x=0$


## - Start

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

There is no solution.

- $a=0, b=0$
$\begin{aligned} 0 \times x & =0 \\ 0 & =0\end{aligned}$


## - Start

## $a x=b$

- $a \neq 0$

$$
\begin{aligned}
a x \times \frac{1}{a} & =b \times \frac{1}{a} \\
x & =\frac{b}{a}
\end{aligned}
$$

- $a=0, b \neq 0$

$$
\begin{aligned}
0 \times x & =b \\
0 & =b
\end{aligned}
$$

There is no solution.

- $a=0, b=0$

$$
\begin{aligned}
0 \times x & =0 \\
0 & =0
\end{aligned}
$$

The solution is all numbers.

Github:
https://min7014.github.io/math20210129001.html

## Click or paste URL into the URL search bar, and you can see a picture moving.

