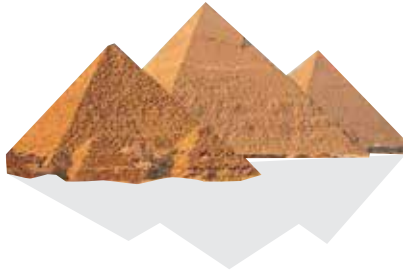


# The Evolution of Takeoff

## Ancient History

Egyptians introduce proportional scale drawings and a standardized measurement system called the royal cubit.



## 25-220 AD

The modern method of papermaking is invented in China, creating a popular material to write down dimensions and quantities.

## 1632

The predecessor to the modern slide rule debuts as a calculating device.

## 1770

Rubber erasers make it easier to correct takeoff mistakes on paper.

## 1970s

Pocket-size electronic calculators replace slide rules to help estimators save time doing the math.

## 1990s

Digitizers reduce the time it takes to do takeoff from paper blueprints by 50% or more.

## Today

Takeoff from building information models gives estimators a better way to visualize the project and provide cost feedback to the building team.

## 1662

The first mass produced pencils appear in Germany, giving builders doing takeoff-like activities a handy writing tool.

## 1842

Blueprints are invented and become the standard format for building plans.

## 1980s

Electronic spreadsheets like VisiCalc, Lotus 1-2-3, and Excel offer a more efficient way for estimators to log takeoff numbers and compute complex formulas.

## 2000s

Electronic takeoff tools offer an even more productive and accurate way to do takeoff directly from electronic plans.



## Tomorrow

# eTakeoff

How will takeoff continue to evolve?

Contact us today. 888-825-2877

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