



Diamonds

Data Source

Kaggle

- More than 53,000 data on the measurements and price of diamonds
- Diamond data:
 - ❖ Price
 - ❖ 4Cs
 - ❖ Proportion and Measurements
- Assumption:
 - ❖ Price = Sale price
- Limitation:
 - ❖ No cost price
 - ❖ Methodology of pricing





Characteristics



4Cs

- Carat
- Color
- Cut
- Clarity



Carat

- Weight of the diamond

Color

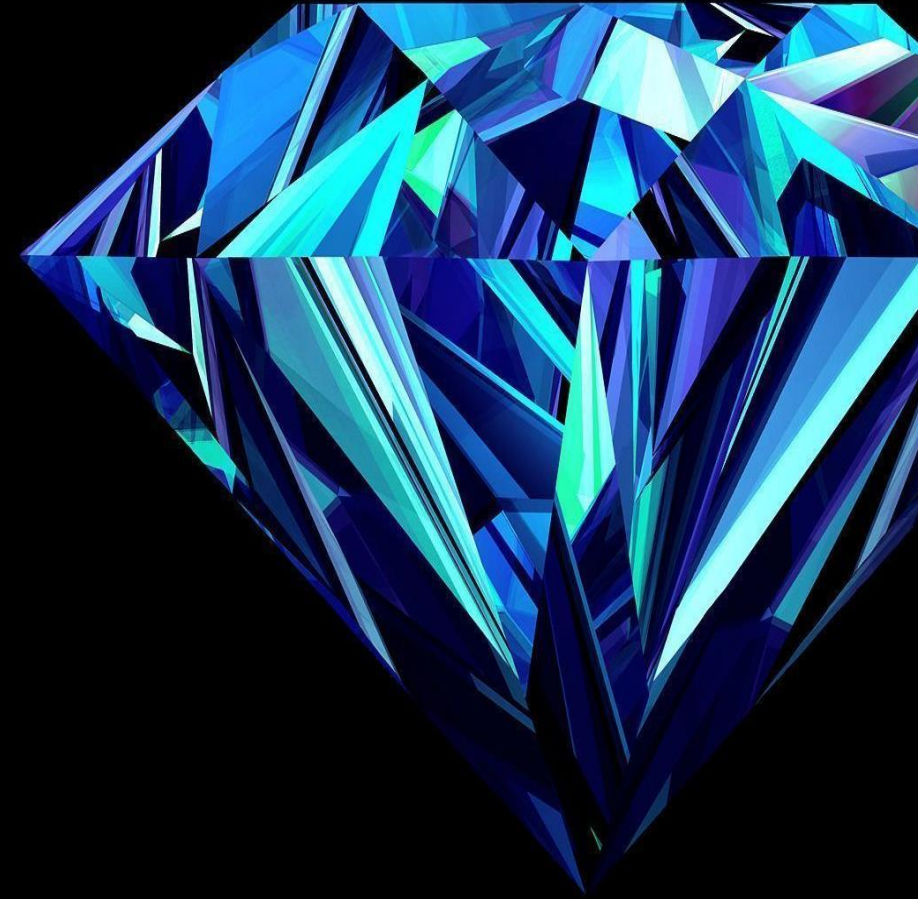
- Color of the diamond with D (best) and Z (worst)



Source: Petragems

Cut

- Cut quality of the diamond
- GIA classify as Excellent, Very Good, Good, Fair and Poor
- In the data, Ideal (best), Premium, Very Good, Good and Fair (worst)



Clarity

- Visible inclusions under 10X magnification

Symbol	Name
FL	Flawless
IF	Internally Flawless
VVS1/VVS2	Very, Very Slightly Included
VS1/VS2	Very Slightly Included
SI1/SI2	Slightly Included
I1/I2/I3	Included



Proportion & Measurements



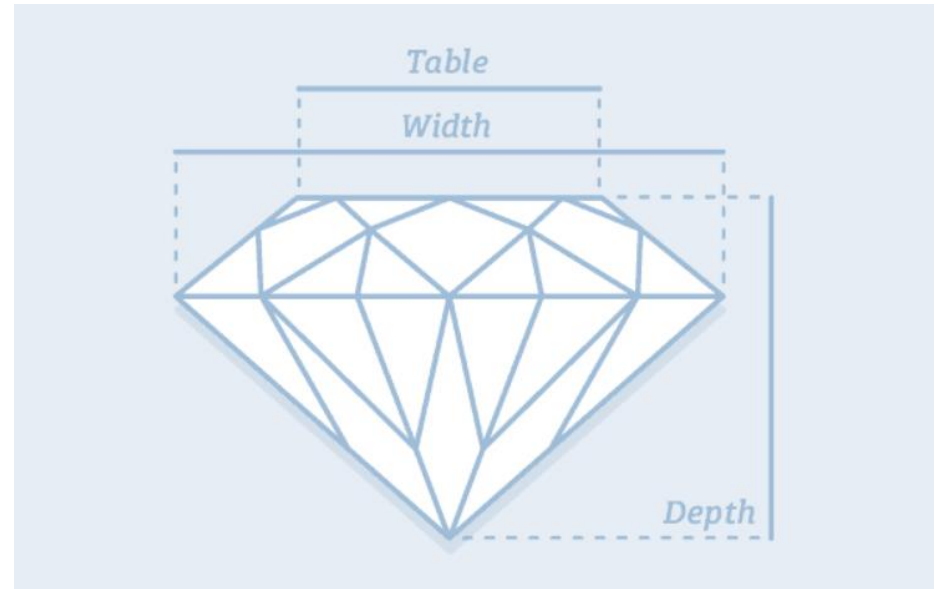
Proportion

Depth %

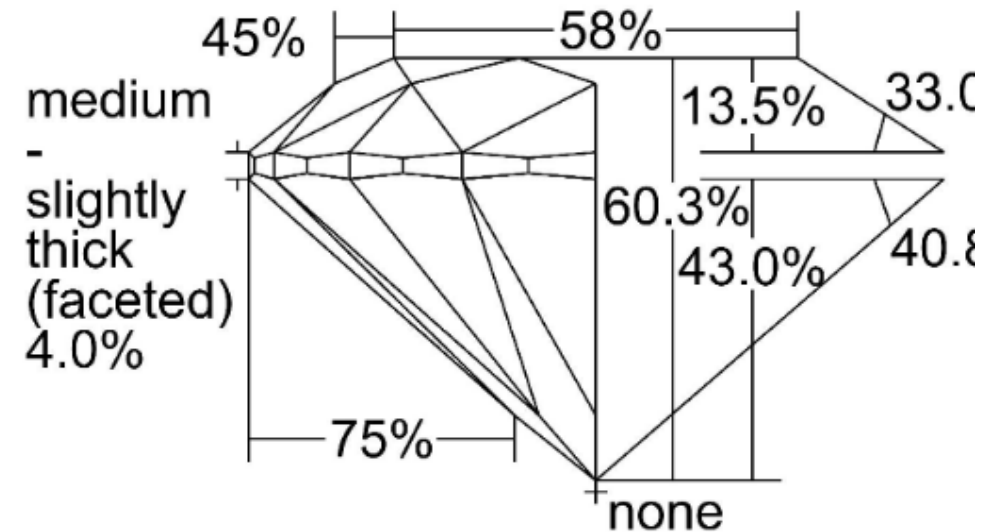
- Measurement from top to bottom
- Total height divided by total width (e.g. 60.3%)

Table %

- Flat facet on diamond's surface
- Table width as a percentage of the total width (e.g. 58%)



Source: diamonds.pro



Source: GIA

Measurements

“X”

➤ Length in mm

“Y”

➤ Width in mm

“Z”

➤ Depth in mm





Dashboard
