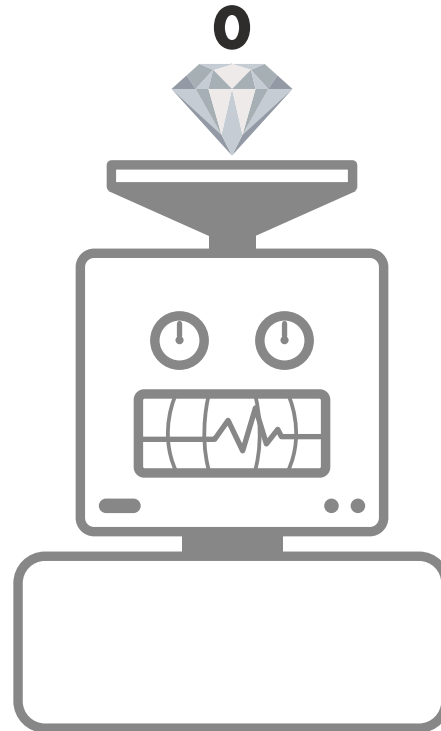




OPERATION CATEGORY 1

PERFORMANCE METRICS FOR DIAMOND VERIFICATION
INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC
DIAMONDS ARE TESTED WITH THIS TEST PROTOCOL



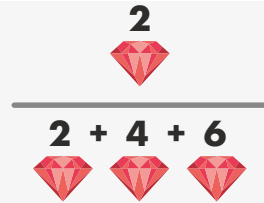


OPERATION CATEGORY 1

PERFORMANCE METRICS FOR DIAMOND VERIFICATION INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC DIAMONDS ARE TESTED WITH THIS TEST PROTOCOL

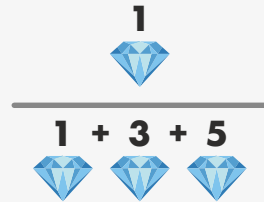
Diamond False Positive Rate

$\frac{\text{Synthetic diamonds categorised as diamond}}{\text{All synthetic diamonds}}$



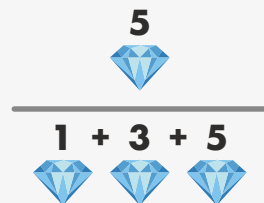
Diamond Accuracy

$\frac{\text{Diamonds categorised as diamond}}{\text{All diamonds}}$



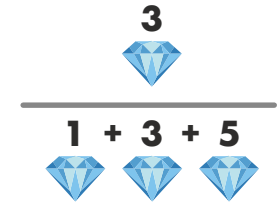
Diamond Referral Rate

$\frac{\text{Diamonds categorised as refer}}{\text{All diamonds}}$



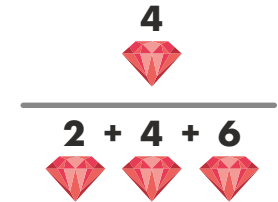
Synthetic Diamond False Positive Rate

$\frac{\text{Diamonds categorised as synthetic diamonds}}{\text{All diamonds}}$



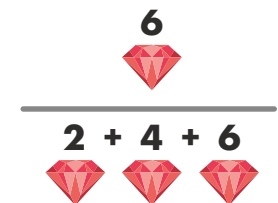
Synthetic Diamond Accuracy

$\frac{\text{Synthetic diamonds categorised as synthetic diamond}}{\text{All synthetic diamonds}}$



Synthetic Diamond Referral Rate

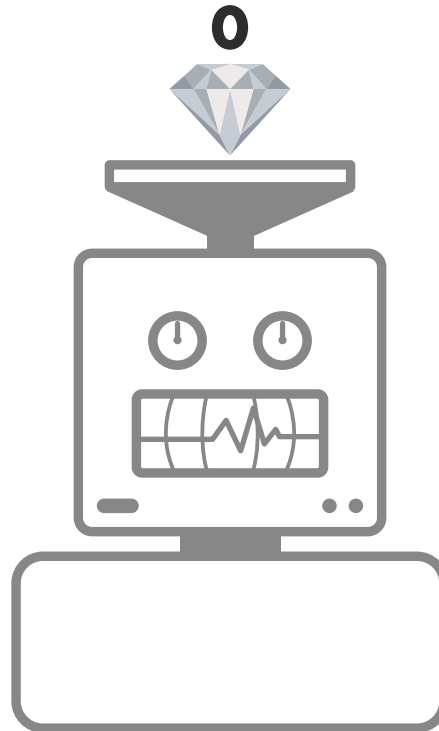
$\frac{\text{Synthetic diamonds categorised as refer}}{\text{All synthetic diamonds}}$



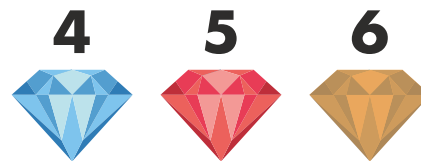


OPERATION CATEGORY 2

PERFORMANCE METRICS FOR DIAMOND VERIFICATION INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC DIAMONDS AND DIAMOND SIMULANTS, BUT CANNOT SEPARATE SYNTHETIC DIAMONDS FROM DIAMOND SIMULANTS, ARE TESTED WITH THIS TEST PROTOCOL



DIAMONDS



SYNTHETIC DIAMONDS/
DIAMOND SIMULANTS



REFER



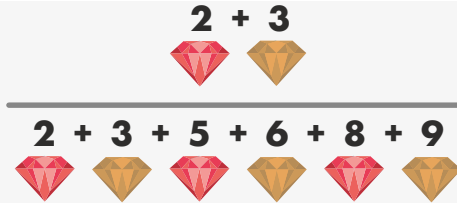
OPERATION CATEGORY 2

PERFORMANCE METRICS FOR DIAMOND VERIFICATION INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC DIAMONDS AND DIAMOND SIMULANTS, BUT CANNOT SEPARATE SYNTHETIC DIAMONDS FROM DIAMOND SIMULANTS, ARE TESTED WITH THIS TEST PROTOCOL

Diamond False Positive Rate

Synthetic diamonds and diamond simulants categorised as diamond

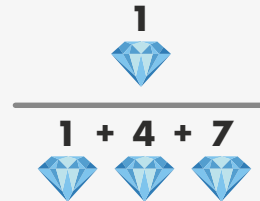
All synthetic diamonds and diamond simulants



Diamond Accuracy

Diamonds categorised as diamond

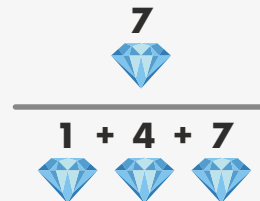
All diamonds



Diamond Referral Rate

Diamonds categorised as refer

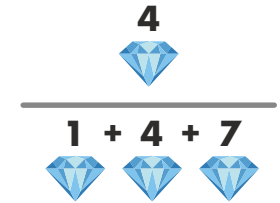
All diamonds



Synthetic Diamond and Diamond Simulant False Positive Rate

Diamonds categorised as synthetic diamonds or diamond simulant

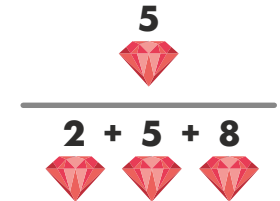
All diamonds



Synthetic Diamond Accuracy

Synthetic diamonds categorised as synthetic diamond or diamond simulant

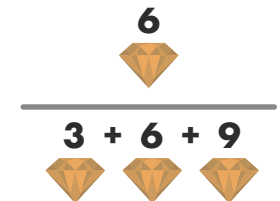
All synthetic diamonds



Diamond Simulant Accuracy

Diamond Simulants categorised as synthetic diamond or diamond simulant

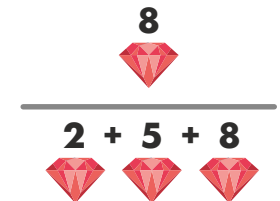
All diamond simulants



Synthetic Diamond Referral Rate

Synthetic diamonds categorised as refer

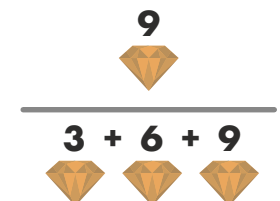
All synthetic diamonds



Diamond Simulant Referral Rate

Diamond Simulants categorised as refer

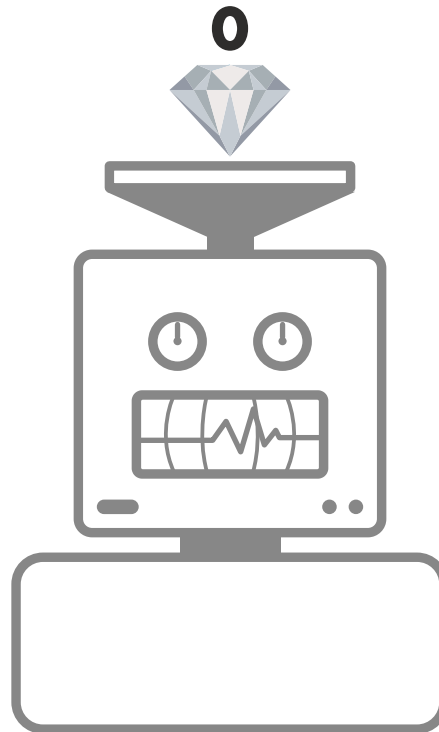
All diamond simulants





OPERATION CATEGORY 3

PERFORMANCE METRICS FOR DIAMOND VERIFICATION INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC DIAMONDS AND DIAMOND SIMULANTS, AND SEPARATES SYNTHETIC DIAMONDS FROM DIAMOND SIMULANTS, ARE TESTED WITH THIS TEST PROTOCOL



1 **2** **3**



DIAMONDS

4 **5** **6**



SYNTHETIC DIAMONDS

7 **8** **9**



DIAMOND SIMULANTS

10 **11** **12**



REFER



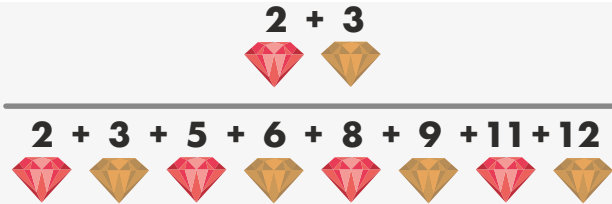
OPERATION CATEGORY 3

PERFORMANCE METRICS FOR DIAMOND VERIFICATION INSTRUMENTS THAT SEPARATES DIAMONDS FROM SYNTHETIC DIAMONDS AND DIAMOND SIMULANTS, AND SEPARATES SYNTHETIC DIAMONDS FROM DIAMOND SIMULANTS, ARE TESTED WITH THIS TEST PROTOCOL

Diamond False Positive Rate

Synthetic diamonds and diamond simulants categorised as diamond

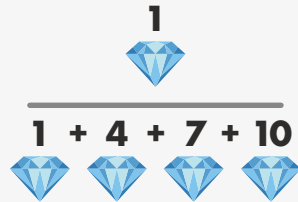
All synthetic diamonds and diamond simulants



Diamond Accuracy

Diamonds categorised as diamond

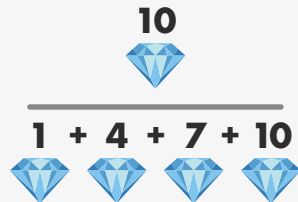
All diamonds



Diamond Referral Rate

Diamonds categorised as refer

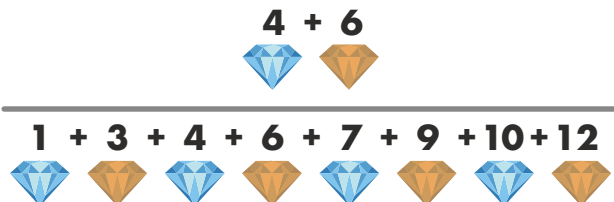
All diamonds



Synthetic Diamond False Positive Rate

Diamonds and diamond simulants categorised as synthetic diamond

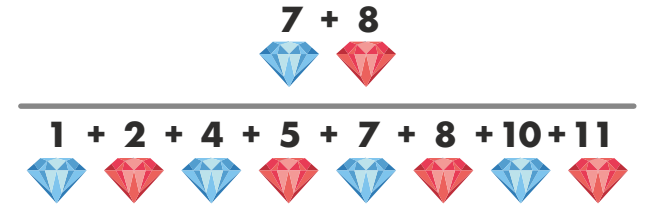
All diamonds and diamond simulants



Diamond Simulant False Positive Rate

Diamonds and synthetic diamonds categorised as diamond simulants

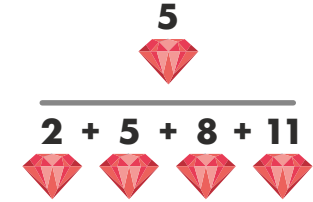
All diamonds and synthetic diamonds



Synthetic Diamond Accuracy

Synthetic diamonds categorised as synthetic diamond

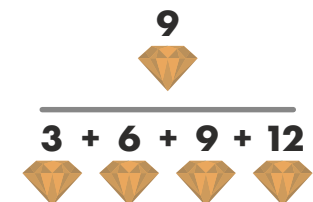
All synthetic diamonds



Diamond Simulant Accuracy

Diamond Simulants categorised as diamond simulant

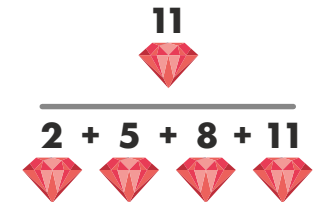
All diamond simulants



Synthetic Diamond Referral Rate

Synthetic diamonds categorised as refer

All synthetic diamonds



Diamond Simulant Referral Rate

Diamonds Simulants categorised as refer

All diamond simulants

