



TESTS THATS TRIES

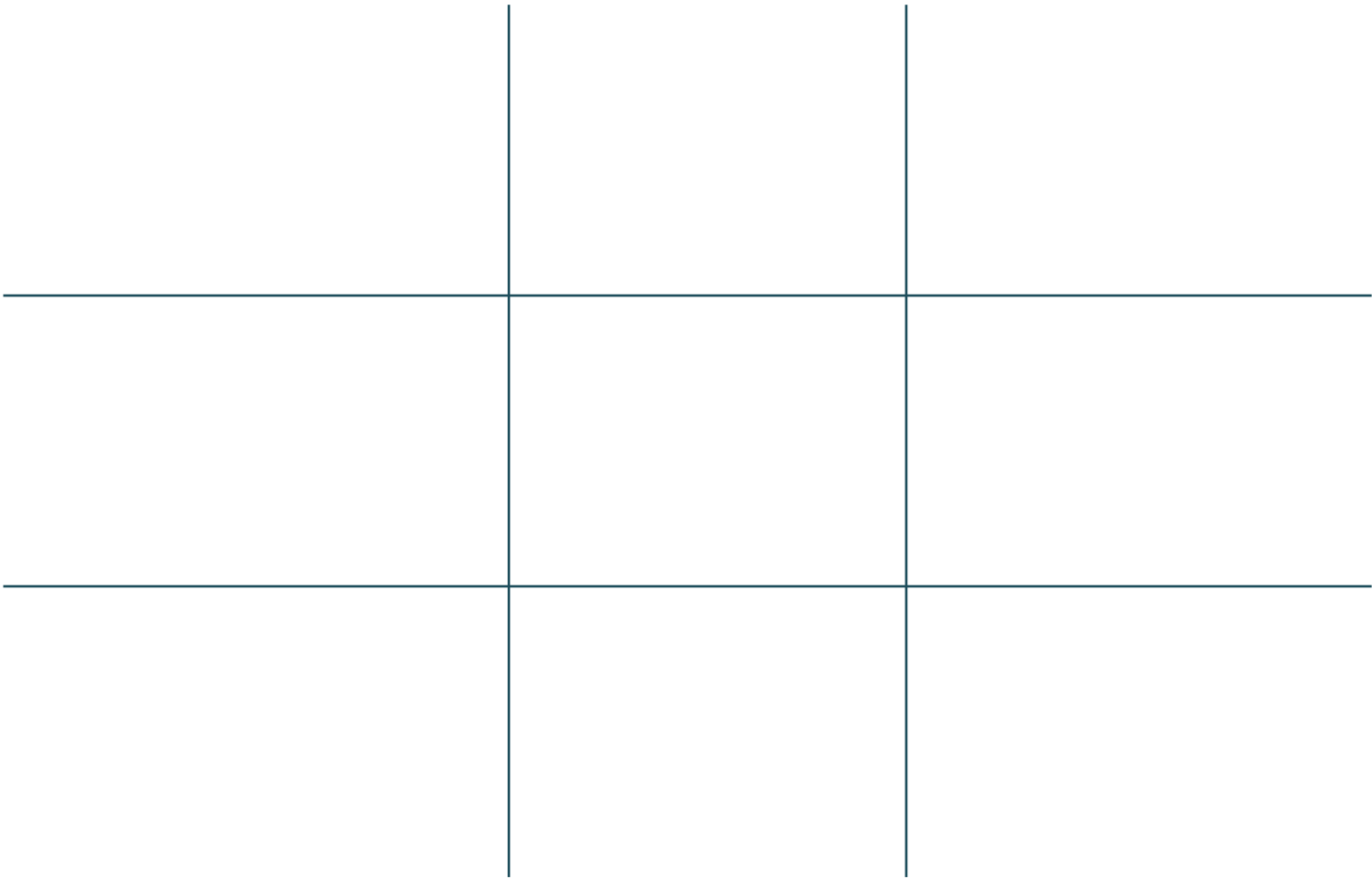






















# TEST STATISTICS

- If we have a gold standard of evidence we can then construct a confusion matrix
- The test sensitivity and specificity can be calculated
- The prevalence *could* also be calculated or can come from an independent source
- Bayes' rule can be used to calculate the PPV

	Gold Positive	Gold Negative
Test Positive	A	B
Test Negative	C	D

$$s = \frac{A}{A + C} \quad t = \frac{D}{B + D}$$

$$p = \frac{A + C}{A + B + C + D}$$

$$PPV = \frac{ps}{ps + (1 - p)(1 - t)} = \frac{A}{A + B}$$

