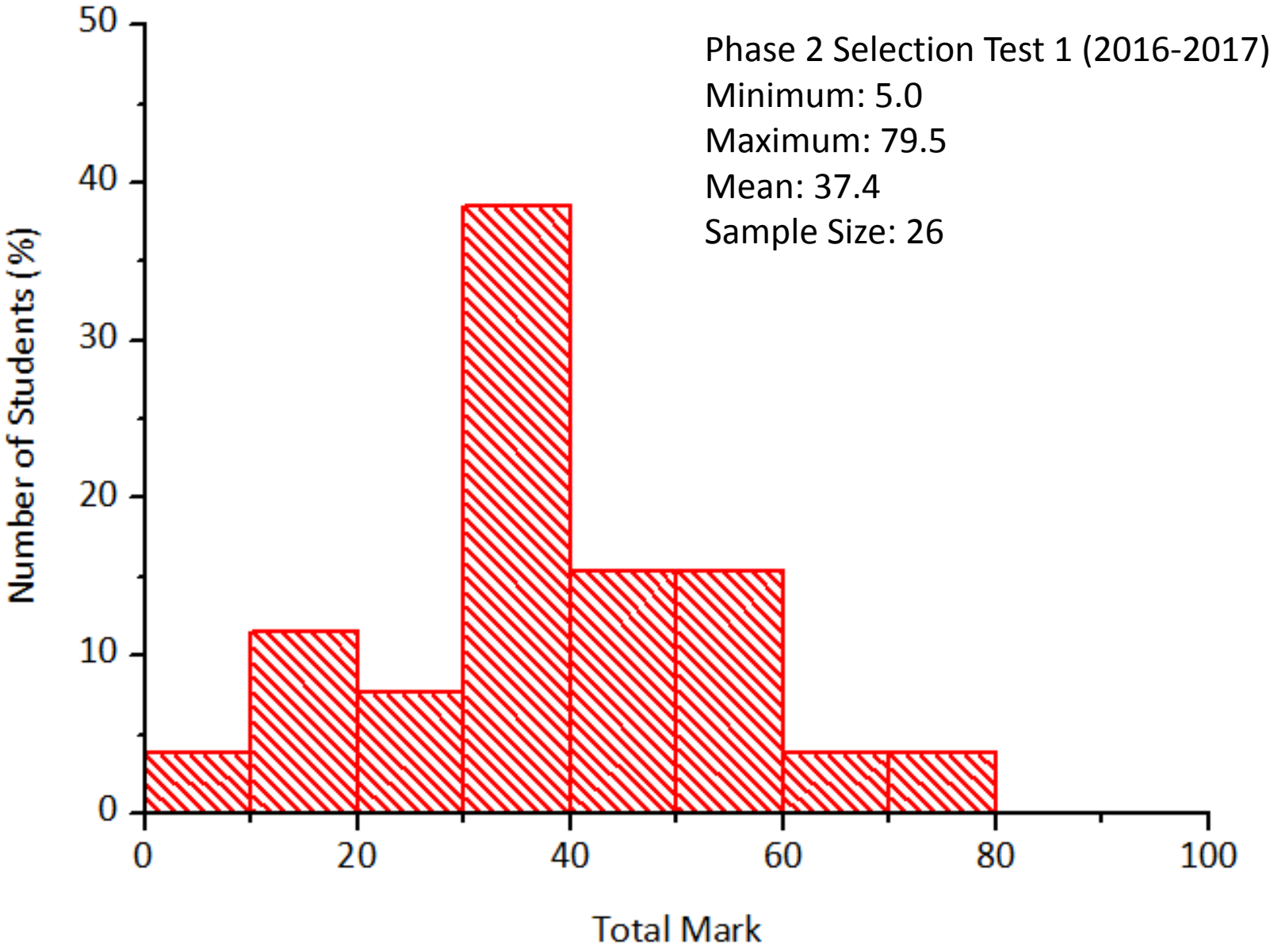
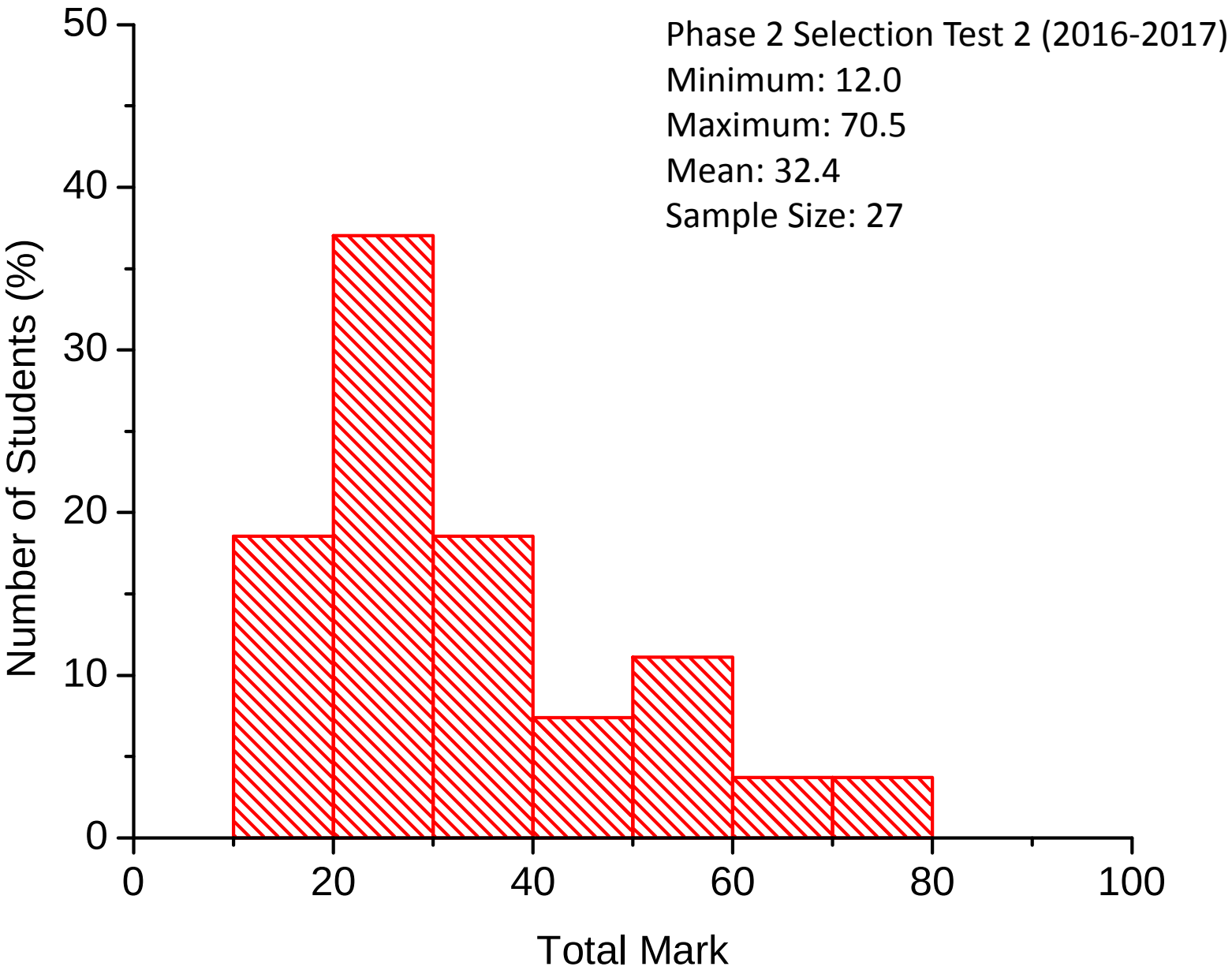

Phase 2 Selection Test 1 (2016-2017)
Minimum: 5.0
Maximum: 79.5
Mean: 37.4
Sample Size: 26
Number of Students (%)
0
10
20
30
40
50
0
20
40
60
80
100
Total Mark


Phase 2 Selection Test 2 (2016-2017)
Minimum: 12.0
Maximum: 70.5
Mean: 32.4
Sample Size: 27
Number of Students (%)
0
10
20
30
40
50
0
20
40
60
80
100
Total Mark

Remark: Test 1 Q1

(i) $$x \approx \frac{m\lambda D}{d} \qquad or \qquad \sin\theta_m = \frac{m\lambda}{d}$$

(ii) How to determine the highest order of diffraction?

Hint: $d \sin(\theta) = m \lambda$

Remark: Test 1 Q2, Quadratic Regression Fit

15. Statistical Calculations (SD, REG*)

***fx-82MS/85MS/300MS/350MS only**

To select this type of statistical calculation: (Regression formula shown in parentheses)	**Perform this key operation:**
Single-variable (X)	MODE 2 (SD)
Paired-variable (X, Y), linear regression ($y = A + Bx$)	MODE 3 (REG) 1 (Lin)
Paired-variable (X, Y), logarithmic regression ($y = A + B\ln x$)	MODE 3 (REG) 2 (Log)
Paired-variable (X, Y), e exponential regression ($y = Ae^{Bx}$)	MODE 3 (REG) 3 (Exp)
Paired-variable (X, Y), power regression ($y = Ax^{B}$)	MODE 3 (REG) ▶ 1 (Pwr)
Paired-variable (X, Y), inverse regression ($y = A + B/x$)	MODE 3 (REG) ▶ 2 (Inv)
Paired-variable (X, Y), quadratic regression ($y = A + Bx + Cx^2$)	MODE 3 (REG) ▶ 3 (Quad)