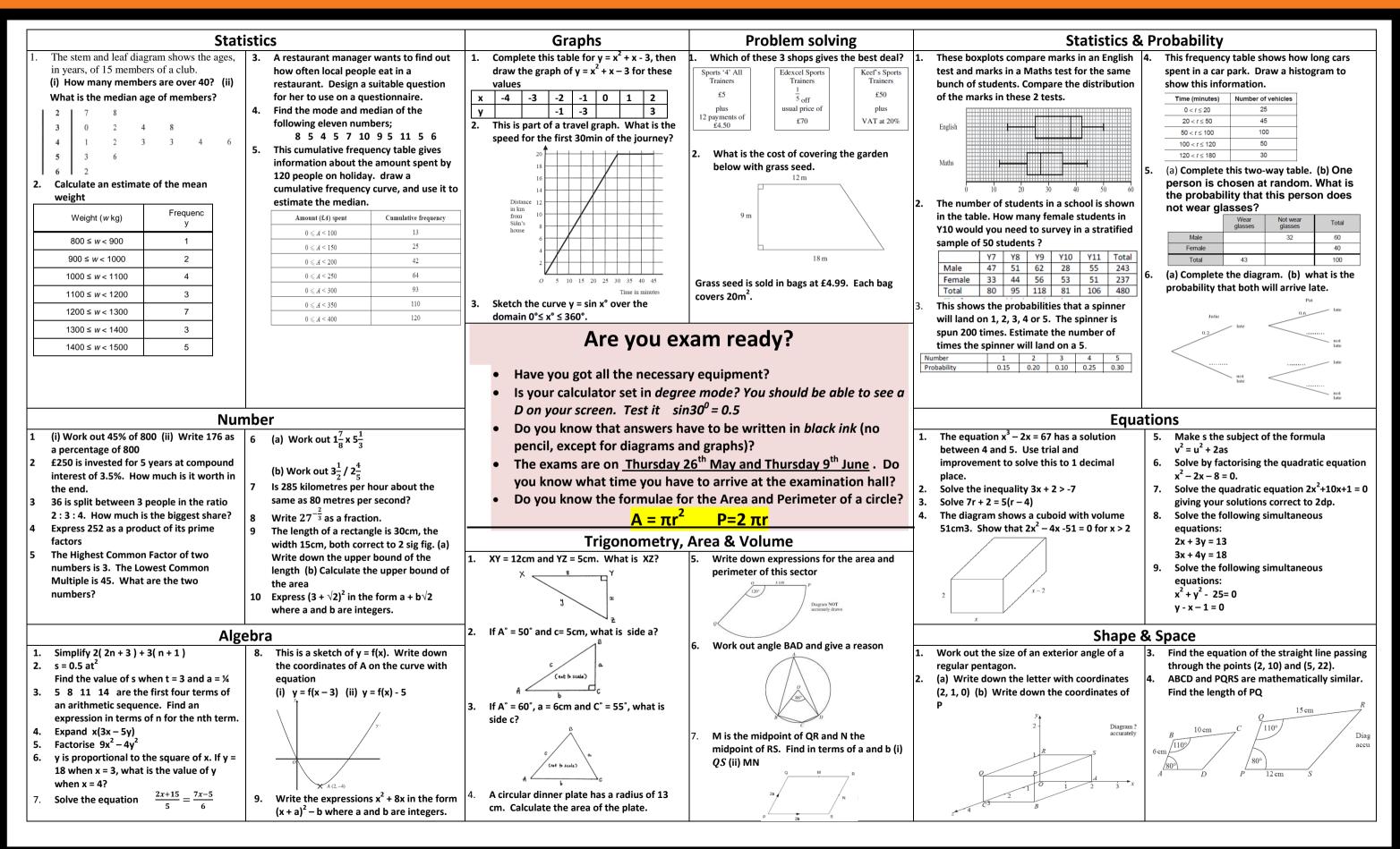


Mathematics – Edexcel Higher Tier

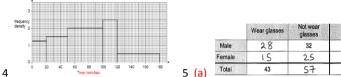




Answers; Statistics 1(i) 9 (ii) 42 2 1218 3 Should have at least 3 non-overlapping response boxes, and include a timescale 4 Mode 5 Median 6 5 Ogive drawn – median 240 Number 1 (i) 360 (ii) 22 2 £296.92 3 16 4 2 x 2 x 3 x 3 x 7 5 9 and 15 or 45 and 3 6 (a) 10 (b) $1\frac{1}{4}$

7 80 m/s = 288 Km/hr, so yes, roughly the same. 8 1/9 9 (a) 30.5cm (b) 472.75cm² 10 11 + $6\sqrt{2}$ Algebra 1 7n + 9 2 s = 9/8 3 3n + 2 4 3x² - 5xy 5 (3x + 2y)(3x - 2y) 6 y = 32 7 x = 5 8 (5,-4) & (2,-9) 9 (x + 4)² - 16 Problem solving 1 Sports 4 All;£59 Edexcel;£56 Keef;£60. Edexcel best value 2 area is 135m2; need 7 bags costing £34.93 Equations 1 4.2 2 x > -3 3 R = -11 4 Multiply length by width by breadth and put = to 51 5 s = $(v^2 - u^2)/2a$ 6 x = 4 and -2 7 x = -0.10 and -4.90 8 x = 2, y = 3 9 x = 3, y = 4 and x = -4, y = -3 Shape & Space

 172° 2 (a) S (b) (2, 1, 3) 3 y = 4x + 2 4 9cm Trigonometry 1 XZ = 13cm 2 a = 3.8cm (1dp) 3 c = 5.7cm (1dp) 4 531cm² 5 Area = $\pi x^2/3$ Perimeter = $2x + 2\pi x/3$ 6 43° as the angle at the circumference is half the angle at the centre 7 QS = -2a + 2b MN = -a + b



Statistics & Prob 1 Compares medians and either IQR or Range 2 6 3 60 4

