

Ordinary Maths leaving Cert 2006 Paper 1 answers  
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Please note : Every effort has been made to ensure that the answers are correct . But we are only human

**Question 1:**

(a)720.(b)(i)39Euro(ii)47.19(c)tax 275.20.euro,(ii)Increase in Income is 35 Euro

**Question 2:**

A(i)  $x + 7$ .(b)  $f(2) = 4a + 2b + 20$ , (ii)  $a = -9, b = 3$ , (c)(i)  $k > 2$ , (ii)Pythagoras

**Question 3:**

(a)1/2.(b)  $x = 2, y = -4$ , (c)  $2 \pm \sqrt{7}$  sub 4.65 into both sides of the equation.

**Question 4 :**

(a) 5.(b) (i)  $2 + 5i, 2 - 5i$ , (ii)  $-1$  (c) (i)  $\frac{11+10i}{17}$  (ii)  $p = 11, q = 5$

**Question 5;**

(a)  $T_n = 25 - 8n$ ; (b) (i)  $a = 2$ , (ii)  $r = .5$ , (iii)  $4 - S_{10} = \frac{1}{2^8}$

©(i)  $h = -2$ , (ii)  $1, -12, -25$ , (iii)  $-129$ .

**Question 6:**

(a)

Period (i)8, range  $-1$  to  $2$ . (ii)  $f(44) = 2$ .

(b)Graph (ii)38. (iii)3hours 20minutes. (c)(i)(0,3)(ii)  $x = 2$ , (iii)  $x < 1$ .

**Question 7:**

A(i)  $\frac{dy}{dx} = 15x^2 - 4$ . b(i) 1. (ii)1, (iii)-20. ©(i)100(ii)-10, (iii)1995.

**Question 8:**

A  $-4$ . b(i)  $x^2 - 8x + 16$  (ii)  $x = 2$ . (iii)(3,1), (1,-1).

**Leaving Cert Ordinary Maths 2006 Paper 2.**

**Question 1 :**

A(i)23(ii)483(b)3720,(ii)52%.(c)(i)R= 7,(ii)1372.

**Question 2:**

A(i)Plot (ii)(0,5)(iii)Slope  $-0.5$ .(iv) area of the triangle 22.5.

(b)(i)  $c = -7$ .(ii)K  $3x+2y-4=0$ .(iii)(0,2),(0,3.5)(3,-1)(3,-2.5)

**Question 3:**

(a) (i)  $(-3)^2 + (4)^2 = 25$  (ii)Slope =  $\frac{3}{4}$ .(iii)L:  $-3x+4y=25$ .(iv)(3,-4)

(b)(i)Diagram(ii)  $(x-3)^2 + (y-2.5)^2 = (2.5)^2$  : (ii)  $(x+1)^2 + (y-5.5)^2 = (2.5)^2$

**Question 4: Geometry.**

**Question 5**(I)A is opposite 5,(ii)area of the triangle is 20.

(b)(i)66,(ii)121,(c)(i)36.9.(ii)7.

**Question 6:**

(a)0.(b)(i)15120,(ii)3024.(iii)6720(iv)120.

©(i)8 possible outcomes,(ii)1/8,(ii)4/8,(iii)7/8.

**Question 7;**

(a)SD = 2.6.(b)(i)Histogram(ii)mean26250(iii)Complete table 5,20,45,60,80.(iv)

Ogive (v)approximately 8.

The Options

**Question 8:geometry.**

**Question 9**

(a)(i)-5i+3j,(ii)-2i-2j. (b)(i)7i-9j,(ii)10,(iii)  $\sqrt{20} > \sqrt{10}$

©(i)2c,(ii)b-a,(iii) True ,(iv)0.

**Question 10**

(a)  $1 - 5x + 10x^2 - 10x^3 + 5x^4 - x^5$  (b)(i)  $S_{20} = \frac{3}{2} \left(1 - \left(\frac{1}{3}\right)^{20}\right)$  (ii)3/2.(iii)-1/3.

(c)  $P\left(1 - \frac{r}{100}\right)^8, r = 16.$

**Question 11:**

(a)  $Y \leq 0, 10x - 75 - 35 \leq 0, 5x + 8y + 40 \geq 0$

(b) (i)  $60x + 30y \leq 1500, x + y \leq 30$  (ii)Profit expression  $80x + 50y$  ,(ii)20,10,(iii)900