

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