## **SECTION A (5 Marks)**

1)	X is the point at 0.56 and Y is the point 1.2 on the numberline.									
	The point which is halfway between X and Y is at									
	(A)	0.34	(B)	0.64	(C)	0.83	(D)	0.88	(E)	0.93
2)	Three	squares	s each	with an	area o	f 25 cn	n <sup>2</sup> are p	placed s	side by	side to form a
	rectan	gle.								
	The perimeter of the rectangle, in cms, is									
	(A)	20	(B)	36	(C)	40	(D)	75	(E)	100
3)	How r	nany Tu	iesdays	can the	re be at	most in	52 con	secutive	e days?	
	(A)	5	(B)	6	(C)	7	(D)	8	(E)	9
4)	A dia	mond w	eighs 9	000g. A	jewelle	er cuts i	t into f	our pie	ces. The	e weight of the
	largest piece is the same as the total weight of the other three pieces.									
	The weight of the largest piece is:									
	(A)	250g	(B)	300g	(C)	400g	(D)	450g	(E)	600g
5)	A car	with for	ır tyres	and a sp	oare trav	elled 30	0000 kn	n. All fi	ive tyres	s were used
	equally. How many kilometres of wear did each tyre receive?									
	(A)	6000	(B)	7500	(C)	24000	(D)	30000	(E)	150000
Section B (6 Marks)										
5)	There are 100 rooms in a hotel. Joe must number the rooms from 1 to 100 with									
	plastic digits. How many times does he need the digit 7?									
	(A)	10	(B)	11	(C)	18	(D)	19	(E)	20

7)	A one euro coin is placed flat on a table. What is the maximum number of one											
	euro coins that can be placed around it, flat on the table, with each one a tangent											
	to it (that is touching it at one point only)?											
	(A)	4	(B)	5	(C)	6	(D)	7	(E)	8		
8)	Part of a calendar is shown below.											
				Mon	Tues	Wed	Thurs					
	In a certain month the sum of the numbers (from Monday to Thursday) is 26.											
	What is the date of Monday in the first row?											
	(A)	5	(B)	8	(C)	10	(D)	23	(E)	26		
9)	In a q	uiz con	sisting	of 20 qu	aestions	, 6 poi	nt are av	warded	for eacl	h correct answer		
	and 2 points are deducted for each wrong answer. Jack answered all questions and											
	scored	l 88 poi	nts. Ho	w many	questi	ons did	Jack an	swer co	orrectly	?		
	(A)	15	(B)	16	(C)	17	(D)	18	(E)	19		
10)	When a bucket is half full of water, it has a mass of 12 kg. When the bucket is one								the bucket is one			
	third full of water it has a mass of 10 kg.											
	What is the mass of the empty bucket, in kg?											
	(A)	2	(B)	4	(C)	5	(D)	6	(E)	8		

#### Section C (8 Marks)

Section C ( o ividi ks)												
11)	We divide the rectangle ABCD into seven rectangles of											
	equal	size as	in the	e figure	e belov	v. If t	he area	a of tl	ne			
	rectangle ABCD is 84 cm <sup>2</sup> , what is the perimeter of a											
	small rectangle in cm?											
	(A)	7	(B)	9	(C)	14	(D)	19	(E)	38		
12)	A bus	leaves a	a bus sto	op at 10	.35 am	and the	n stops	at 4 oth	er bus s	tops.		
	If neighbouring bus stops are 10 minutes apart and the bus remains at each st											
	for 3 minutes, at what time does the bus stop at the last stop?											
	(A)	11.11	am (B)	11.14	am (C	) 11.2	1 am (I	D) 11.24	am (E	2) 11.27 am		
13)	The pr	rice of a	an artic	le is inc	creased	by 10%	6. Later	the ne	w price	is increased by		
	20%. By what percentage has the original price increased?											
	(A)	12	(B)	30	(C)	32	(D)	45	(E)	200		
14)	Sam ca	an affoi	rd to bu	y eithe	r 6 cans	of cok	e and 7	packet	s of cri	sps or 8 cans of		
	coke and 4 packets of crisps. Both options leave her with no change.											
	If she bought only crisps, how many packets could she afford?											
	(A)	11	(B)	12	(C)	13	(D)	16	(E)	25		
15)	Jim an	d Jane	wanted	l to buy	y the sa	me boo	ok. Jim	needed	€2.80	more to buy it,		
	while Jane needed €2.60 more.											
	They put their money together and bought the book. They then had €2.60 left.											
	How n	How much was the book?										
	(A)	€6	(B)	€7	(C)	€8	(D)	€9	(E)	€10		



# Comórtas Sóisearach Matamaitice Éireann (Irish Junior Mathematics Competition) 2015

# **ANSWER KEY**

SECTION A
 D
 C
 D
 D
 D
 D
 D
 D
 D
 D
 D
 D
 D
 D
 E

- 7. C
- 8. A
- 9. B
- 10. D

# SECTION C

- 11. C
- 12. D
- 13. C
- 14. D
- 15. C