Carlingford High School



Mathematics Year 7 Term 3 Test 2017

Student Name:				
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	,			

Circle your Teacher below.

Mrs.Tomar/Mrs.Virmani Mr Gong

Mr Jiang

Ms Pennington

Ms Nicolaou

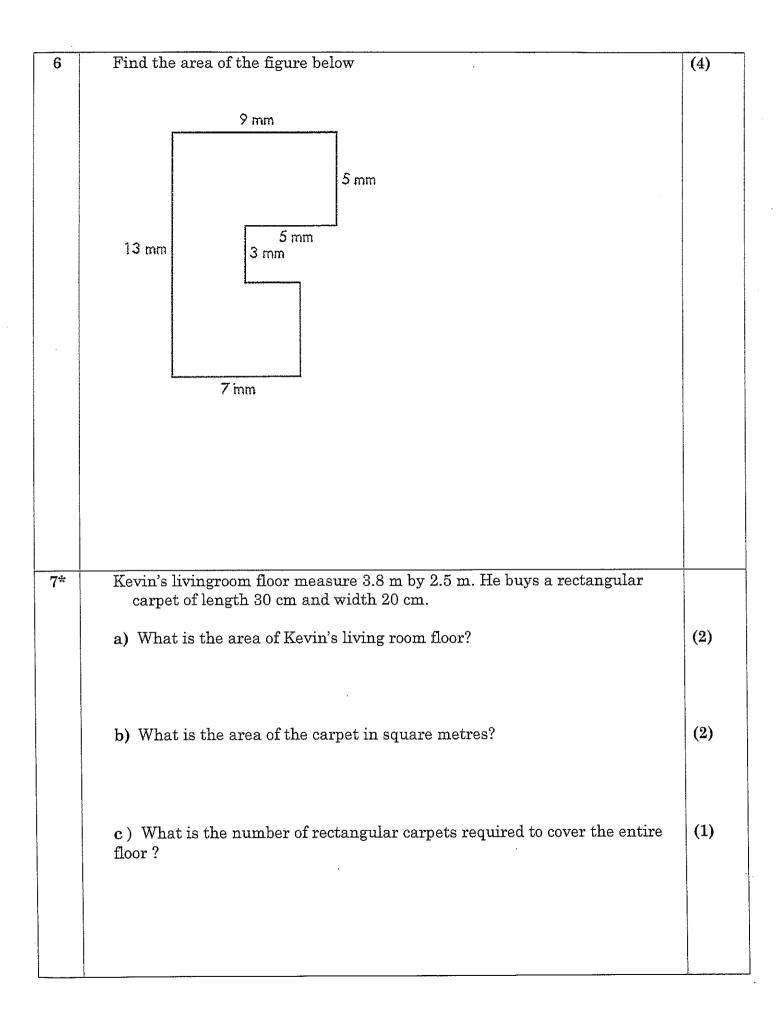
Ms Wilson/MsYoung

Time allowed: 55 minutes

- Complete the examination in blue or black pen.
- Show all necessary working.
- Attempt all questions.
- Extension questions are marked with an asterisk *.
- Calculators are not allowed.

	Length and Area	Algebra	Decimals	Total	
Questions	/17	/23	/26	/66	
Extension	/5	/2	/4	/11	
Total	/22	/25	/30	/77	9

	Length and Area	(22)
1	Convert the following:	(3)
-	i. 4 tonne to kg :	
	ii. 2.8 km to cm:	
	iii. 40 min to hrs:	
2	A rectangle has a perimeter of 100 cm. If its length is 40 cm what is its width?	(0)
4	A rectangle has a perimeter of 100 cm. If its length is 40 cm what is its width:	(2)
3	Find the area of the rectangle with length 42 cm and width 80 mm.	(3)
4	Find the area of given triangle with base 6 cm and height 5 cm.	(2)
	5 cm 6 cm	
5	What unit would you use to measure the following:	(3)
	a) The distance from your school to Epping Station.	
	b) The length of your mathematics book.	
	c) The width of your small fingernail	



		ALGEBRA	(25)
1	Simp	lify	
	i.	5m - m =	(1)
	ii.	$2a + 3b + 3a - 5b = \underline{\hspace{1cm}}$	(2)
	iii.	6x + 3x + x =	(1)
2	Write	e an expression for the followings:	(7)
	i.	Sum of p and q .	
	ii.	Product of r and 12 added to 15.	
	iii.	85 divided by y .	
	iv.	One-third of a number y.	
	v.	10 decreased by c .	
	vi.	The amount of money spent if you buy m ice creams for \$2 each.	
	vii.	Square root of a number (n) added to 17.	
3	If x	z = 5, $y = 2$ and $z = 4$. find	
	a)	$x + y + z = \underline{\hspace{1cm}}$	(2)

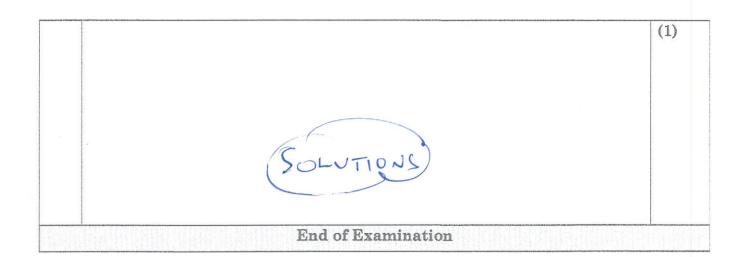
	b) $2x - y = $	(2)
	c) 5 z - y ² =	(2)
4	Expand and simplify the expressions:	(9)
	a) $5a(2a+3b)$	(2)
	b) $2z + 4(3x + 10z)$	(2)
*	c) $(3p-4p)-2(q-2p)$	(2)
5.	Write the following expressions in expanded form:	(2)
	a) $5x + y$	
	b) $\frac{5mn}{2a}$	

	Decimals	(30)
1	How many decimal places are there in	(2)
	i. 15.062	
	ii. 0.0462	
2	A. Arrange in ascending order	(2)
	a) 0.7, 0.07, 0.05, 0.44, 0.007	
	B. Convert each decimal to a simplified fraction	
		(2)
	a) 0.06	
	b) 27.25	(2)
	s, = ··-s	
		(1)
	c) 0.0023	
The state of the s		
3	Evaluate	(2)
	76.029 - 8.914	

4	A school bag has a total weight of 10 kg. If the books weigh 8.35 kg.	(2)
•	What is the weight of the bag?	(2)
		-
5	Simon earned \$18.45 per hour. How much will he earn for 40 hour week.	(2)
6	State if the given decimals are terminating or recurring.	(2)
	-> 0.99	:
	a) 0.33	
	b) 0.540	
7	Sean bought these lengths of cables to complete a wiring job: 12.3 m, 7.98 m,	
1	23.6 m and 13.65 m.	
	a) How many meters of cable he used for the job?	(2)
	b) If the shopkeeper had 100m of cable. How many meters of cable were left	(2)
	with the shopkeeper?	

8	Round off 10.337 to two decimal places.	(1)
9	Lisa buys a pack of lolly for \$4.85 each and sells them for \$5.15 each.	
	a) How much money did she make per packet?	(2)
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	b) How much money does she make if she sells 30 packets?	(2)
10*	I have \$20 to pay for petrol, the petrol costs \$ 0.65 per litre.	
	a) What is the cost of filling 40 litres of petrol?	
	a) What is the cost of iming to here of pouter.	(2)
	b) Do I have enough money to pay for 40 litres?	(1)
		(1)
	c) If not, how much money do I require?	(1)
	End of Examination	





Carlingford High School



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Circle your Teacher b	elow.	
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Ms Pennington	Ms Nicolaou	Ms Wilson/MsYoung

Time allowed: 55 minutes

- Complete the examination in blue or black pen.
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Student Name:

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	Length and Area	(22)
1	Convert the following:	(3)
	i. 4 tonne to kg: 4000 Kg — ()	
	ii. 2.8 km to cm: <u>) \$ 0,000</u> Cm — ()	
A to the family of family	iii. $40 \text{ min to hrs:} \underline{3} \underline{4c} - \underline{2} hrs - \underline{0}$	
2	A rectangle has a perimeter of 100 cm. If its length is 40 cm what is its width?	(2)
	Perimeter of rectangle = locam	
	Let width = x 2x = 20 x x x	
	40+40+xx+x=100 x=10cmx	
3	Find the area of the rectangle with length 42 cm and width 80 mm.	(3)
	Area of rectangle = LXW - 0	
	Length = 42cm	
	width - Somm=8cm - ()
	Area = 41 x 8 33 6 cm 2 - (1)	
4	Find the area of given triangle with base 6 cm and height 5 cm.	(2)
The state of the s	Area of triangle = 1xbxht	
	6 cm = \(\frac{1}{2}\times \cdot \cd	0
	$\frac{30}{2} = 15 \text{cm}$	10
5	What unit would you use to measure the following:	(3)
	a) The distance from your school to Epping Station	
	b) The length of your mathematics book	
	c) The width of your small fingernail	

Account to a sensitive of the		
sharete recommonly each		
Current and Andrews		
6	Find the area of the figure below	(4)
chelifores et colonide es		
Anna marka da da marka da mar	9 mm Area of & rectangle I	
demokal delegiology	= 9mm X 5mm	
and the second s	$\frac{1}{\sqrt{5}} = 45 \text{mm}^2 - \frac{1}{\sqrt{5}} = 45 \text{mm}^2 - \frac{1}{\sqrt{5}} = 1$	10
	13 mm Area of rectangle II	
erande and	$= 3mm \times (9-5)mr$	
an brantstiruisten	- 37,111 × 19-3,1111 = 3×4	
NAMES OF THE PARTY	= 12 mm ²	<u> </u>
market production, valued to the state of th		
ANALANA MANANANA MAN	7 mm Area of rectangle III	
-	= 7mm x (13-8)m	m
	= 7 x 5	
	= 35 mm -	
markith dermarkhited the	Area of the figure = 45mm²+12mm² + 35mm²	
- Anna Anna Anna Anna Anna Anna Anna Ann	+ 35 mm = 92 mm = -	L(1)
7*	Kevin's livingroom floor measure 3.8 m by 2.5 m. He buys a rectangular	
And the second s	carpet of length 30 cm and width 20 cm.	
- Proposition of the same of t	a) What is the area of Kevin's living room floor?	(2)
	Area = Lxw = 3.8mx 2.5m -(1)	
(Security and Security and American	$= 9.5m^2 - \boxed{)}$	
Vacanta and and and and and and and and and an	b) What is the area of the carpet in square metres?	(2)
annua de describido de de describido de desc	Area of carpet = 30cm x 20cm	
	$= 600 \text{cm}^2 - 0$ $= 0.06 \text{m}^2 - 0$	1
	c) What is the number of rectangular carpets required to cover the entire	(1)
	floor? number = 9.5 = 158.33 = 159+1/6	<u>'</u>

	***************************************		and market market
		ALGEBRA	(25)
7	Simp		
	i.	5m - m = $4m$	(1)
	li.	$2a + 3b + 3a - 5b = 2a + 3a + 3b - 5b \rightarrow \Box$	(2)
		5a-2b-0	e (a) the character was the character with the character was the character was the character with the character was the character w
	o particularitation of the state of the stat	6x + 3x + x =	(1)
2	Writ	e an expression for the followings:	(7)
	1.	Sum of p and q . $P+q$.	Accessory to the second control of the secon
	71.	Product of r and 12 added to 15.	
	iii.	85 divided by y.	Security and Control of the Control
		85 ÷ Y	
	iv.	One-third of a number y.	
	v.	$\frac{5}{3}$ 10 decreased by c .	
	**	10 - C	
	vi.	The amount of money spent if you buy m ice creams for \$2 each.	
	vii.	Square root of a number (n) added to 17.	
		Vn + 17	

3	If $x = 5$, $y = 2$ and $z = 4$. find	e de la companya de l
	a) $x + y + z = 5 + 2 + 4 - 0$	(2)
Anti-transferration description	<u></u>	
And a		
- the state of the		(0)
***************************************	b) $2x - y = 2(5) - 2$	(2)
***************************************	10-2=8 $-(1)$	
	c) $5z-y^2 = \frac{5x(4)-(9)^2}{}$	(2)
	20-厘4 116 — ①	
	至16	
4	Expand and simplify the expressions:	
enderstein er de	a) $5a(2a+3b)$	(2)
Armada Labina in de dirindra de la director de la d	5ax2a + 5ax3b - (
	10a2 + 15ab	
		-
	b) 2z+4(3x+10z) = 22+4x3x+4x102-1	(2)
	22+12x+403 -T	
		Control of the Contro
*	c) $(3p-4p)-2(q-2p)$	(2)
	3p-4p-29+4p - 1	
	3p-2q M	
The state of the s		
		Live and the second

ā.	Write the following expressions in expanded form:	(2)
	a) $5x+y$	
	Product of Sand x added to y -10	
	b) $\frac{5mn}{n}$	
	Product of 5, mand n divided by In - M	
	Decimals	(30)
1	How many decimal places are there in	(2)
	i. 15.062 <u>3</u>	
	ii. 0.0462 <u> </u>	
2	A. Arrange in ascending order	(2)
	a) 0.7, 0.07, 0.05, 0.44, 0.007	
	B. Convert each decimal to a simplified fraction a) 0.06 11 - 0.63 = 3 - (1)	(2)
	50 b) 27.25 Method 1	(2)
	$\frac{2725}{100} - 0$ $\frac{2725}{100} = \frac{545}{20} = \frac{109}{4} - 0$ c) 0.0023 $= 25\frac{1}{4}$ $\frac{23}{10000} - 0$	(1)
	method-2	

method-2 $27 \frac{25}{100} \rightarrow \boxed{)}$ $27 \frac{1}{100} - \boxed{)}$

3	Evaluate	(2)
	76.029 - 8.914	
	76.029	
	8,914	
	67.105 -0	
4	A school bag has a total weight of 10 kg. If the books weigh 8.35 kg. What is the weight of the bag?	(2)
	Total weight = 10 kg	
A STATE OF THE STA	book's weight = 8.35 kg	
radio, and design design of the second secon	weight of the bag = 10 kg - 8.351 = 1.65 kg -	970
5	Simon earned \$18.45 per hour. How much will he earn for 40 hour week.	(2)
	Earning per hour = \$18.45	
	Farning per hour = \$18.45 for 40 hrs = 18.45 x 40 - (1)	
	= \$738 — D	
6	State if the given decimals are terminating or recurring.	(2)
se de camprovista acom signatorio de	a) 0.33 <u>recurring</u> —	
delicitation of the barrack matters &	b) 0.540 Ternsinating - 1	**************************************
***************************************	J	
7	Sean bought these lengths of cables to complete a wiring job: 12.3 m, 7.98 m,	
electrodello dell'estatione	23.6 m and 13.65 m.	(0)
Autoritation of the state of the state of	a) How many meters of cable he used for the job?	(2)
- Andread - Andr	12.3m+ 7.98m+ 23.6m +13.65m - 57.53m - (1)	0
THE PROPERTY AND PARTY AND	57.53 m — O	
	b) If the shopkeeper had 100m of cable. How many meters of cable were left	(2)

	with the shopkeeper?	
And the second s	Cable left = 100 m - 57.53 m-	-(i)
	42.47m — (1)	
8	Round off 10.337 to two decimal places.	(1)
	10.34 — [
9	Lisa buys a pack of lolly for \$4.85 each and sells them for \$5.15 each.	
	a) How much money did she make per packet?	(2)
	45.15-\$4.85 - O	
	\$5.15 - \$ 4.85 - 0 = 30 cents = \$0.30 -0	
	b) How much money does she make if she sells 30 packets?	(2)
	money - 30x\$030 ()	
	money = $30 \times 030 — (1)	
10*	I have \$20 to pay for petrol, the petrol costs \$ 0.65 per litre.	100
		COMPANY OF THE PROPERTY OF THE
	a) What is the cost of filling 40 litres of petrol?	(2)
	Cost of 40 litres of petrol = \$0.65x40	
	cost of 40 litres of petrol = \$0.65x40 = \$26	\bigcirc
	b) Do I have enough money to pay for 40 litres?	(1)
	No - D	
	c) If not, how much money do I require?	