Carlingford High School



Mathematics

Year 7 Term 3 Examination 2020

Name:		Class: 7	
Circle your teacher's name:	Mrs Lobejko/Mrs Lego	Mr Cheng	
	Mrs Wilson/Mrs Young	Mrs Virmani	
	Mrs Blakeley/Mrs Sharma	Mrs Tang	
	Mr Gong/Mrs Virmani	Mr Wilson	

Time allowed: 50 minutes

- Show all necessary working.
- Marks may be deducted for careless or untidy work.
- Complete the examination in blue or black pen.
- All questions are worth one mark unless stated otherwise.
- Calculators may be used.

Topic	Decimals	Algebra	Literacy	Problem Solving	Total
Total	/33	/30	/4	/3	/70

Se	ction A: Decimals (33 marks)			
	Four hundredths, 5 thousandths and three ten thousandths is equal to:	8. Write in ascending order: 0.6055, 0.5506, 0.607		
	A. 4.53 B. 0.0453			
	C. 0.005 43 D. 0.05043			
2.	0.837 256 rounded to the nearest hundredth is:	9. Round off to 1 decimal place:		
	A. 0.83 B. 0.84	a) 5.28 ≈		
	C. 0.837 D. 0.8			
3.	Convert $\frac{3}{5}$ to a decimal.	- b) 367.84 ≈		
	A. 3.5 B. 0.6	c) 19.96 ≈		
	C. 5.3 D. 6.0	[3]		
4.	The best estimate for 6.72×3.34 is:	10. The temperature rose from 17.7°C to 21.4°C. How much did it rise?		
	A. 18 B. 200			
	C. 21 D. 2000			
5.	How many decimal places are in the answer to 129.2×0.2 ?	11. Evaluate: $(3.6)^2 + \sqrt{1.44}$		
	A. 1 B. 2			
	C. 3 D. 4			
6.	Evaluate $$40 - 35c$	12. Evaluate: $\frac{5.12+6.4}{25}$		
7.	Find the product of 5.24 and 26	13. Give an EXACT answer to:		
		$0.56 \div 0.3$		

14. Copy and complete by placing $<$, $> or =$ in the space:	18. Jack ran three 100m sprints. His times were 11.52s, 11.03s and 11.8s. Find his average
a) 0.560.6	time.
0.500.0	
b) $\frac{19}{20}$ 0.95	
c) 76.95	[2]
15. Convert these fractions to decimals:	19. Daniel buys 2 pens which are \$1.95 each.
a) $\frac{9}{10} = $	How much change does he receive from \$5?
b) $3\frac{3}{4} = $	
T	
c) $\frac{5}{6} =$	
[3]	[2]
16. A chemistry experiment requires 0.5g of one chemical and 0.075g of another chemical. Find the total mass of chemicals needed for the experiment.	20. A PE teacher buys 20 basketball jerseys worth \$56.50 each. Find the total cost of the jerseys.
[2]	[2]
17. Jo has travelled 15.2 km of a 25km journey.	21. A 1.2km taxi ride costs \$11.40. Find the
How far does she have left to travel?	price per kilometre.
[2]	[2]

- 1. Simplify a + a + a + b + b
- 4. If N is the number write an expression for:
- a) The sum of the number and 3.

- A. $a^3 + b^2$
- B. 6*ab*
- C. 3a + 2b
- D. 5*ab*

- b) The number decreased by 7.
- c) Half the product of the number and 5.

[3]

- 2. Simplify $7 + 5 \times p$
 - A. 12*p*
 - B. 7 + 5p
 - C. $7 + \frac{5}{p}$
 - D. 35*p*

- 5. Write in expanded form:
- a) 7pq =
- b) $4k^3 =$

6. Simplify

[2]

- 3. Simplify:
- a) m + m + m + m =

- a) 4x 6y 7y + 10x
- =

- b) 8y y =
- c) $6 \times a \times 2 =$

b) $\frac{8m^2n}{10mn}$

d) $8d \times 2d =$

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e) $5y + 3 \times 4y =$

[4]

[5]

7. Expand and simplify:	10. If $m = 2n - 7$ find m when:
a) $6(y+2) =$	a) $n = 5$
b) $4(2t-5) =$	b) $n = 1$
c) $5p - (2 + 3p) =$	
	c) $n = -4$
8. If $a = 3$, $b = 5$ and $c = -2$ find:	Literacy (4 marks)
	Literacy (4 marks) 1. Circle the "like terms".
a) 4 <i>b</i> =	$4s^2t$, $-5st$, $2t^2s$, $-6ts^2$
	2. Consider $5y^3$, write down the:
b) $2b - a =$	a) index
c) $c^2 =$	b) coefficient
	c) base
9. If $m = 0.2$, $n = 5$ and $p = -1$ find:	Extra Working Space
a) $m(n-p) =$	
b) $\frac{m^2 + 2p}{n} =$	

[4]

Problem Solving: (3 marks)

1.

The illustration below shows a row of houses with the house number shown on the door.



a) How many house/s would there be before number 6?

b) Find the number of the second house to the right of number 36.

2.

If the pattern in the following 5 by 5 square is completed, what is the sum of all the numbers?

2	3	5	8	13
4	7	11		
6	10			
10		27		
16				