Carlingford High School



Mathematics

Year 7 Term 3 Examination 2019

Name:	Class: 7

Time allowed: 50 minutes

- Show all necessary working.
- Answer all questions in the spaces provided.
- Marks may be deducted for careless or untidy work.
- Complete the exam in blue or black pen.
- Calculators are not allowed.

Topic	Decimals	Time	Algebra	Problem Solving	Total
Mark	/ 24	/ 20	/24	/2	/ 70

<u>Decimals</u>

Cor	nplete the following senten	ce:	[1]	4) Co	nvert:	:	
		_ decimal has a fi	nite	a)	16 100	into a decimal	[1]
		nal places	[1]	b)	4 11	into a decimal, using dot notation	[2]
b)	Write the place value of 4		[1]				
с)	Round to two decimal place	es	[1]	c)	0.9	into a simplified fraction	[1]
		s in ascending ord	der: [2]	d)	27.0	025 into a simplified fraction	[2]
	A _ nur For a) c)	number of decimal places. For the number 10.047: a) Write the number of decim b) Write the place value of 4 c) Round to two decimal place	number of decimal places. For the number 10.047: a) Write the number of decimal places b) Write the place value of 4 c) Round to two decimal places Arrange the following numbers in ascending or	A decimal has a finite number of decimal places. For the number 10.047: a) Write the number of decimal places [1] b) Write the place value of 4 [1] c) Round to two decimal places [1] Arrange the following numbers in ascending order:	A decimal has a finite number of decimal places. For the number 10.047: a) Write the number of decimal places [1] b) b) Write the place value of 4 [1] c) Round to two decimal places [1] c) Arrange the following numbers in ascending order: 2.055, 2.505, 0.255, 2.05 [2]	A decimal has a finite number of decimal places. For the number 10.047: a) Write the number of decimal places [1] b) \frac{4}{11} c) Round to two decimal places [1] c) O.9 Arrange the following numbers in ascending order: 2.055, 2.505, 0.255, 2.05 [2]	A decimal has a finite number of decimal places. For the number 10.047: a) Write the number of decimal places [1] b) \frac{4}{11} into a decimal, using dot notation b) Write the place value of 4 [1] c) Round to two decimal places [1] c) 0.9 into a simplified fraction Arrange the following numbers in ascending order: 2.055, 2.505, 0.255, 2.05 [2]

6) Tom bought 15 metres of fabric at \$6.29 per metre.
a) What was the total cost of the fabric? [2]
b) How much change would Tom receive if he paid with a \$100 note? [1]
 7) A farmer has four dairy cows. In one day, the first cow produced 10.95 litres of milk, the second cow produced 11.587 litres, the third cow produced 9.6 litres, and the fourth cow produced 7.013 litres. a) How many litres of milk were produced by the four cows that day? [1]
b) The milk is poured into containers that each hold 0.15 litres. How many full containers will there be? [2]

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1)	me		_	s has a differer ame but prono		-	nat is the time 3 hours and 12 minutes after : 26 am? [2]
	D	ay	Hour	Minu	ıte			
2)	Cor	nvert the follow	wing:					
	a)	3 min =	S		[1]			
	b)	21 days =		week(s)	[1]	•	on was born on 18 July 1998. How old, in years d months, is he on 18 March 2015? Ignore leap ys.	
	c)	18 months = _		year(s)	[1]			
	d)	340 min =	h	min	[1]		e the Train Timetable provided on page 9 to	
3)	Rou	und to the nea	rest minute	e:		ans	swer the following questions:	
	a)	25.21 min			[1]	a)	If Teresa wants to be in Wondabyne by 12:55pm, at what time is the latest train that she should catch from Wynyard?	1]
	b)	6 h 13 min 48	3 s		[1]			
						b)	How long, in hours and minutes, does the 10:47 am train from Central take to arrive at Wyong?	2]
4)	Cor	nvert:						
	a)	7: 36 am into	24-hour tir	ne.	[1]			
	b)	2152 into 12	-hour time.		[1]			

							:	Algebra	
8)		e the Australian time zone maps provided on ge 9 to answer the following questions:	-	Circl Veria		correc Quo		elled word: Pronumeral	[1] Subsitute
	a)	When Australian Daylight Savings Time applies, what time is it in Alice Springs when it is 7 am in Canberra? [1]	2)	Circl		pair of		erms: b 2b ² a	[1] - 4ba²
	b)	In August I will fly from Hobart to Perth. The flight departs on Friday at 10:20 pm and the flight duration is 4.25 hours. At what time will I arrive in Perth (in Perth time)? [3]		algel	braic (expres	sion fo	per, write a si or: mber and 7	mplified [1 Mark Each]
			ı	b) ⁻	Γriple	the nu	ımber		
				c) l	Half th	ne diffo	erence	between 11	and the number

- 4) Simplify:
 - a) h + h + h + h

- **5)** Expand and simplify:
 - a) 3(y+5)
- [1]

b) 9k - k

[1]

[1]

b) 6(x-4)

[1]

c) $4n \times 3m$

- [1]
- c) 10z (3 + 2z)

[2]

d) $7r \times 2r$

- [1]
- **6)** If x = 2, y = 3 and z = -1, evaluate:

e) $8a \div 2$

- [1]
- a) y 8

[1]

[1]

- [2]

[2]

g) 5pq - 2p - 7p + 6pq

- [2]

[2]

Problem Solving (1 Mark Each)

- 1) What is the sum of the first 2813 digits of the number $\frac{28}{13}$ when it is written as a decimal?
- **2)** Write all the two-digit numbers that satisfy the following:

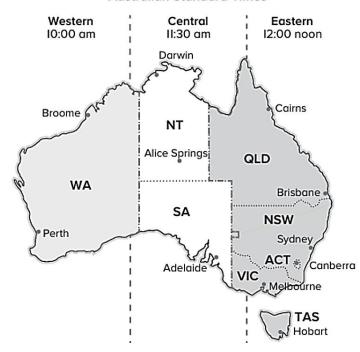
In a two-digit number, if you add three times the tens digit to the units digit, then add this to the product of the digits, you get back to the original number.

Extra Working Out Space

Train Timetable

	am						
Central	10.17	10.30	10.47	11.00	11.17	11.30	11.47
Redfern							
Strathfield	10.28		10.58		11.28		11.58
Eastwood			11.07				12.07
Epping	10.39				11.39		
Town Hall		10.32		11.02		11.32	
Wynyard		10.34		11.04		11.34	
Milsons Point		10.38		11.08		11.38	
North Sydney		10.39		11.09		11.39	
Chatswood		10.51		11.21		11.51	
Hornsby	10.49	11.15	11.19	11.44	11.49	12.15	12.19
Berowra			11.29				12.29
Cowan			11.33				12.33
Hawkesbury River			11.42				12.42
Wondabyne			11.49				12.49
Woy Woy	11.22		11.55		12.22		12.55
Koolewong			11.58				12.58
Tascott			12.01				1.01
Point Clare			12.04				1.04
Gosford	11.32		12.09		12.32		1.09
Narara			12.13				1.13
Niagara Park			12.15				1.15
Lisaeow			12.17				1.17
Ourimbah			12.20				1.20
Tuggerah	11.45		12.26		12.45		1.26
Wyong	11.48		12.29		12.48		1.29

Australian Standard Times



Australian Daylight Savings Time

