Carlingford High School



Mathematics

Year 7 Term 1 Examination

2018

Name:		Class	s: 7		
Circle your teacher's	name: Mrs Ga	mble/Hooper	Mrs Lego	Miss	S Aung/ Mr Gong
	Mr Cheng	Miss Aung	Mrs Pennin	gton	Ms Wilson/Ms Bennett

Time allowed: 50 minutes

- Show all necessary working.
- Marks may be deducted for careless or untidy work.
- Questions marked with an asterisk * are extension level questions.
- Complete the examination in blue or black pen.

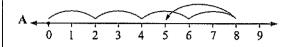
Topic	Computation of Integers	Angles	Literacy	Total
Mark	/27	/30	/6	/64
Extension*	/5	/8		/13
Total	/32	/38	/6	/76
			1	

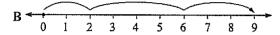
Section A: Computation of Integers (32 marks) Circle the correct answer in the

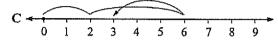
Circle the correct answer in the multiple choice section.

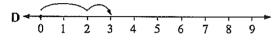
1. Which of the following number line represents the expression:

$$2+2+2+2-3$$
?









2. Which of the following numbers is not an integer?

- A. 0
- B. 0.5
- C. 3
- D. -2

3. Rewrite 3, -5, 0, -2, -1, 1 in ascending order. (2 marks)

 Choose the correct symbol (< or >) to make the statements true. (2 marks)

- i) 6 _____ 4
- ii) -50 ____-51

5. Insert grouping symbols to make each of the following number sentences true.(2 marks)

- i) $5 \times 3 + 8 = 55$
- ii) $10 \times 3 16 2 = 16$

6. Plot the numbers -4, 0, 3, 1, -2 on the number line below. (2 marks)

7. Simplify the following: (7 marks)

i)
$$-5+2=$$

ii)
$$-10 + (-2) =$$

iii)
$$100 \div (-4) =$$

iv)
$$8 \times -3 =$$

v)
$$-6 \times (-6) =$$

vi)
$$\frac{-25}{-5} =$$

*vii)
$$\frac{40 \times (-5) \times (-4)}{-10} =$$

8. Complete the following: (2 marks)

i)
$$(-2)^2 =$$

ii)
$$(-2)^5 =$$

9. Evaluate the following: (6 marks)

i)
$$30 - 3 \times 7 =$$

ii)
$$15 \div 3 + 2 =$$

iii)
$$(9+3) \times 4 + 5 =$$

iv)
$$8 \times 8 + 4 \times 4 =$$

v)
$$35 \div 7 + 15 - 24 \div 4 + 8 =$$

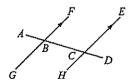
vi)
$$(-9) + [5 - (9 - 5)] =$$

10. At 5:00 am it was $-4^{\circ}C$. The temperature *12. Local time in Sydney is always 3 hours rose 8°C by midday, then fell 6°C by ahead of Singapore time, and Singapore is 7:00 pm. What was the temperature at always 5 hours behind Wellington, which is 7:00 pm? (1 mark) 12 hours ahead of London. What is the time difference between Sydney and London. (2 marks) 11. Mary stepped into the elevator on the *13. On a test, each correct answer scores second floor below ground level. The 5 points, each incorrect answer scores elevator went down seven floors and then -2 points, and each question left up three floors. On which floor did Mary unanswered scores 0 points. get out? (2 mark) A student answers 16 questions on the test correctly, 3 incorrectly and does not answer 1 question. What was the student's test mark? (2 marks)

Section B: Angles (38 marks)

Circle the correct answer in the multiple choice auestions.

- 1. Name the vertex of $\angle FGH$
 - A) F
- B) GH
- C) FG
- D) G
- 2. Name the arms of $\angle STU$.
 - A) TS and SU
- TS and TU B)
- C) UT and US
- D) SU and TS
- 3. Which of the following statements is incorrect?
 - A) A right angle is larger than an acute angle, and smaller than an obtuse angle.
 - B) An obtuse angle is smaller than a revolution, but larger than a reflex angle
 - C) A reflex angle is larger than an acute angle, but smaller than a revolution.
 - D) An acute angle is smaller than an obtuse angle, and smaller than a straight angle.
- 4. In the diagram below, four angles at the point B add to 360°.

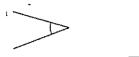


Three of these angles are $\angle ABF$, $\angle GBC$ and $\angle ABG$. Which is the fourth angle?

- A) $\angle BCF$
- $\angle ABC$ B)
- C) $\angle ACE$
- $\angle CBF$ D)

5. Classify the following angles. (5 marks)

i)



ii)

iii)



iv



v)



- 6. Classify the following angles given their sizes. (2 marks)
- i) 58°
- ii) 224°

7. State whether the following statements are True or False. (2 marks)	1
i) Two right angles make a straight angle. ——————	the formal section of the section of
ii) An acute angle plus a right angle makes a reflex angle.	1
8. Name the angle adjacent to \angle ABC . (1 mark)	
$C \longrightarrow B$	
9. Find the size of the marked angle. (2 marks)	1
1) X TO 80 90 100 110 120 140 R R R R R R R R R R R R R	1
ii)	
00 90 100 110 100 90 80 70 80 100 100 100 100 100 100 100 100 100	

O. Measure the size of the angle below. (1 mark)
: *
 Find the size of the reflex angle below. (2 marks)
<i>A</i>
2. What is the complement of 10°? (1 mark)
3. What is the supplement of 102°? (1 mark)
 Find the complement of the supplement of 100°. (2 marks)

