Carlingford High School



Mathematics Year 7 Term 1 Test 2017

Name:			49-4	W-71011			
Circle yc	our class l	pelow.					
Class:	7 C	7A	7R	7 L	71	7N	7G

Time allowed: 55 minutes

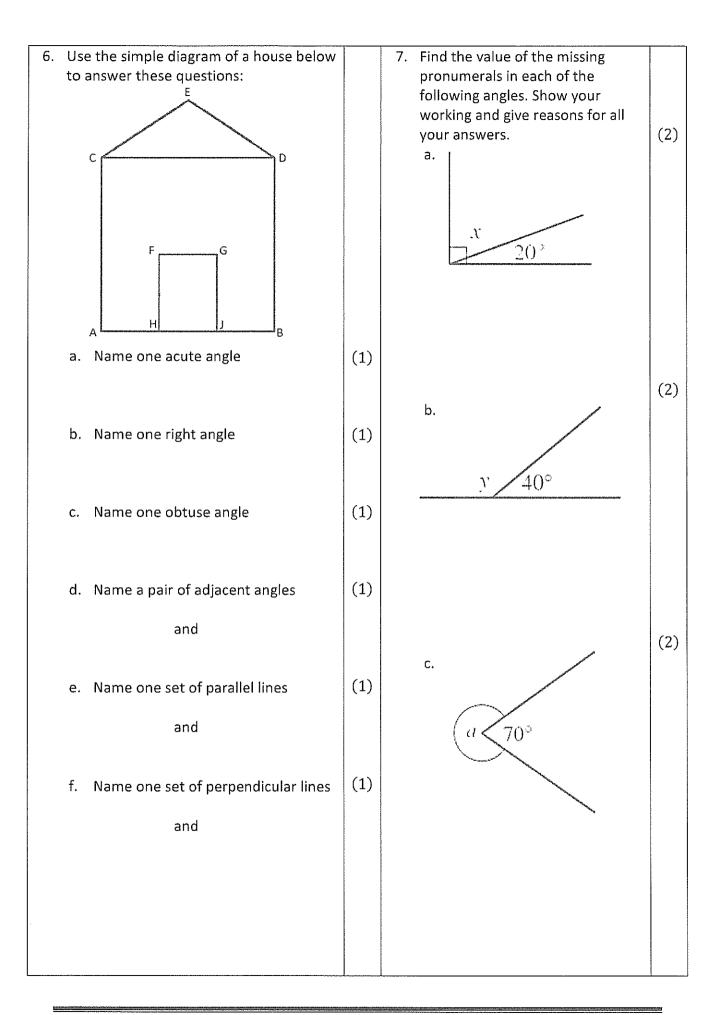
- NO Calculators allowed.
- Complete the examination in blue or black pen.
- Show all necessary working.
- Attempt all questions.
- Extension questions are marked with an asterisk *.

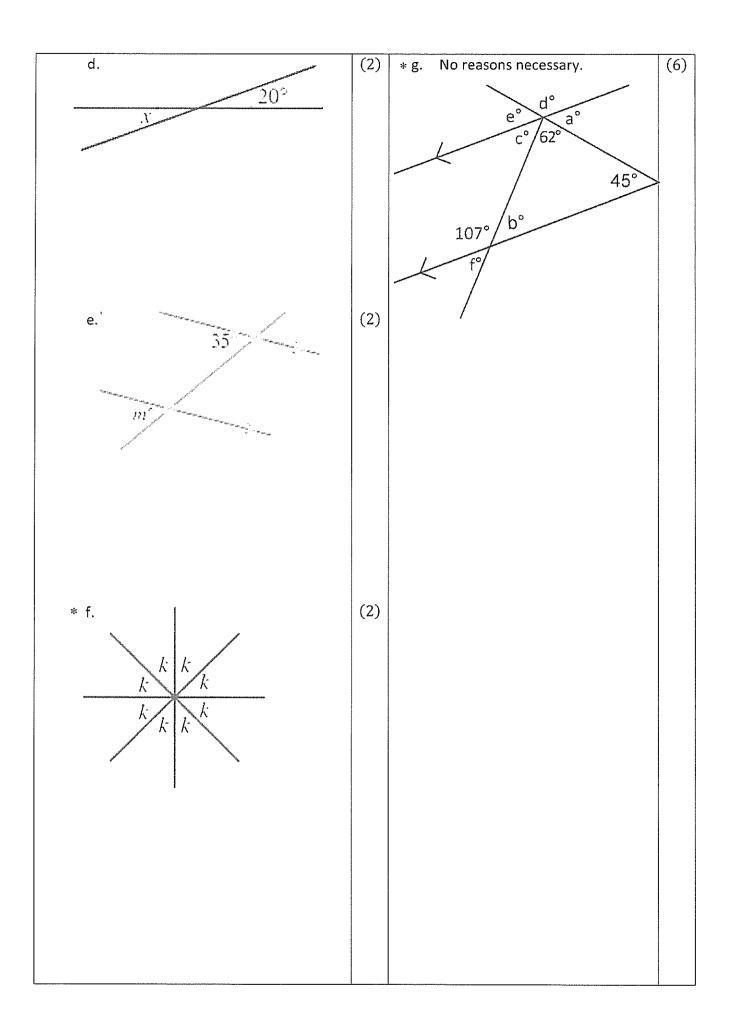
	Integers	Angles	Total	
Questions	/33	/34		
Extension	/6	/10	/16	
Total	/39	/44	/83	%

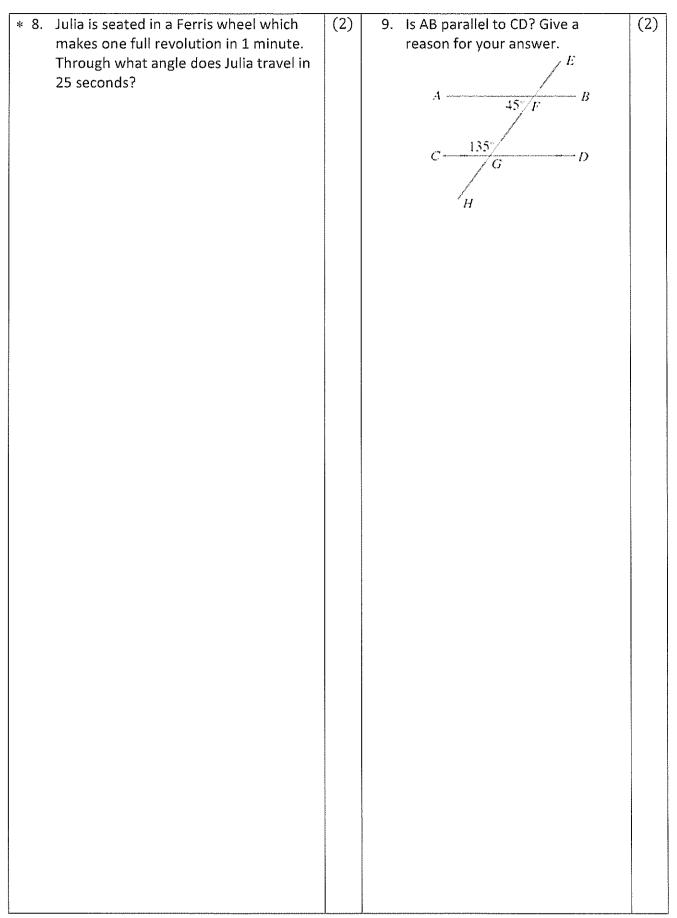
Computation with Integers d. -15 - (-1) =(1)1. Fill in the blanks in the following sentences using correct spelling: e. -5 - 3 =(1)a. Integers are _____ numbers. (4)They can be _____ ____ or ___ f. 17 - (-9) =(1)b. Ascending order means from (3) _____ to _____. g. $-6 \times 7 =$ (1)The opposite is _____ order. (1) h. $-2 \times (-5) =$ (1)2. Which of the following are integers? Circle the correct answer/s. i. $(-8)^2 =$ (1) $-2\frac{1}{2}$, 0.45, 0, -201, 4% (4)3. Complete each statement by inserting i. $-36 \div 3 =$ (1)the correct symbol >, < or = a. -6 _____ - 2 k. $-21 \div (-7) =$ (1)b. 7 _____ - 7 c. 0 _____ - 5 1. $45 \div (-9) =$ (1)d. -100 ____9 (1) m. $\frac{-18}{-2}$ = (1)4. What number is the opposite of 5? (1)n. $10 - 6 \times 4 =$ 5. Arrange the following numbers in (1)descending order; -3, 2, 0, -15, 7 (1) * o. $54 \div 9 - 8 \times 2 =$ (2)6. Increase -5 by 11. 7. Evaluate the following expressions: (1)*p. $-3 \times (-5) - (-6) \times 2 =$ a. -12 + 7 =(2)(1)b. -9 + (-8) =(1)c. 18 + (-10) =

8. True or False $-1 \times -8 \div (-4 + 6) = 4$?	(1)	* 11. The time in Sydney is always 3 hours ahead of Singapore time, and Singapore is always 5 hours behind Wellington, which is 12 hours ahead of London. What is the time difference between Sydney and London.
9. A submarine 110m below the surface of the water rises 80m, then dives 150m. Where is it now?	(1)	
10. Two numbers have a product of 12 but their sum is —7. What are the two numbers?	(2)	

Angle Relationships			
 Fill in the missing words to make true sentences. Use correct spelling. a. When two meet at a point, an angle is formed. b. The point where the lines meet is called a c. Angles are measured in using a 	(1) (1) (2)	4. Use a protractor to draw an angle of 25°.	(2)
dangles add up to 90°. 2. Using a ruler, draw an acute angle ∠ADG.	(1) (2)	5. Classify each of the following angles:	(1)
		b.	(1)
3. What is the size of the indicated angles below? a. 70 80 90 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	(1)	c	(1)
01 01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		d	(1)
b.	(1)	e. An angle of 154°	(1)









Carlingford High School



Mathematics Year 7 Term 1 Test 2017

Name:		50	LUTI				
Circle yo	our class l	pelow.					
Class:	7C	7A	7R	7L	71	7N	76

Time allowed: 55 minutes

- NO Calculators allowed.
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:	Integers	Angles	Total	
Questions	/33	/34		
Extension	/6	/10	/16	
Total	/39	/44	/83	%

Computation with Integers

- 1. Fill in the blanks in the following sentences using correct spelling:
 - a. Integers are Whole numbers.
 They can be POSITIVE or ZEVO.

(4)

(3)

(4)

(1)

(1)

(1)

(1)

(1)

(1)

- b. Ascending order means from <u>Smallest</u> to <u>largest</u>. The opposite is <u>descending</u> order.
- 2. Which of the following are integers? Circle the correct answer/s.

$$-2\frac{1}{2}$$
, 0.45, \bigcirc , \bigcirc 201) 4%

3. Complete each statement by inserting the correct symbol >, < or =

a.
$$-6 _{-2}$$

c.
$$0 \ge -5$$

4. What number is the opposite of 5?

Arrange the following numbers in descending order;

$$7, 2, 0, -15, 7$$

6. Increase -5 by 11.

7. Evaluate the following expressions:

a.
$$-12 + 7 = -5$$

b.
$$-9 + (-8) = -17$$

c.
$$18 + (-10) = 8$$

d.
$$-15$$
 $=$ -14 (1)

e.
$$-5 - 3 = -8$$
 (1)

f.
$$17(-9) = 26$$
 (1)

g.
$$-6 \times 7 = -42$$
 (1)

(1) h.
$$-2 \times (-5) = 1$$
 (1)

i.
$$(-8)^2 = 64$$
 (1)

j.
$$-36 \div 3 = -12$$
 (1)

k.
$$-21 \div (-7) = 3$$
 (1)

1.
$$45 \div (-9) = -5$$
 (1)

m.
$$\frac{-18}{-2} = 9$$
 (1)

n.
$$10 - (6 \times 4) = 10 - 24$$
 (1) $= -14$

* o.
$$(54 \div 9) - (8 \times 2) = 6 - 16$$
 (2)

*p.
$$(-3 \times (-5)) - ((-6) \times 2) =$$
 (2)

8.	Tru	ie o	r F	alse					
	-1	×	8	÷(-4	+	6)	=	4?
ęmo ęmi	Name of	×.	e (3÷	Ž				
***	scom f	4		winds.					

Approx. September 1

True

9. A submarine 110m below the surface of the water rises 80m, then dives 150m. Where is it now?

It is 180m below the water

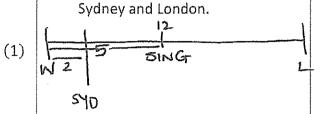
10. Two numbers have a product of 12 but their sum is -7. What are the two numbers?

(2)

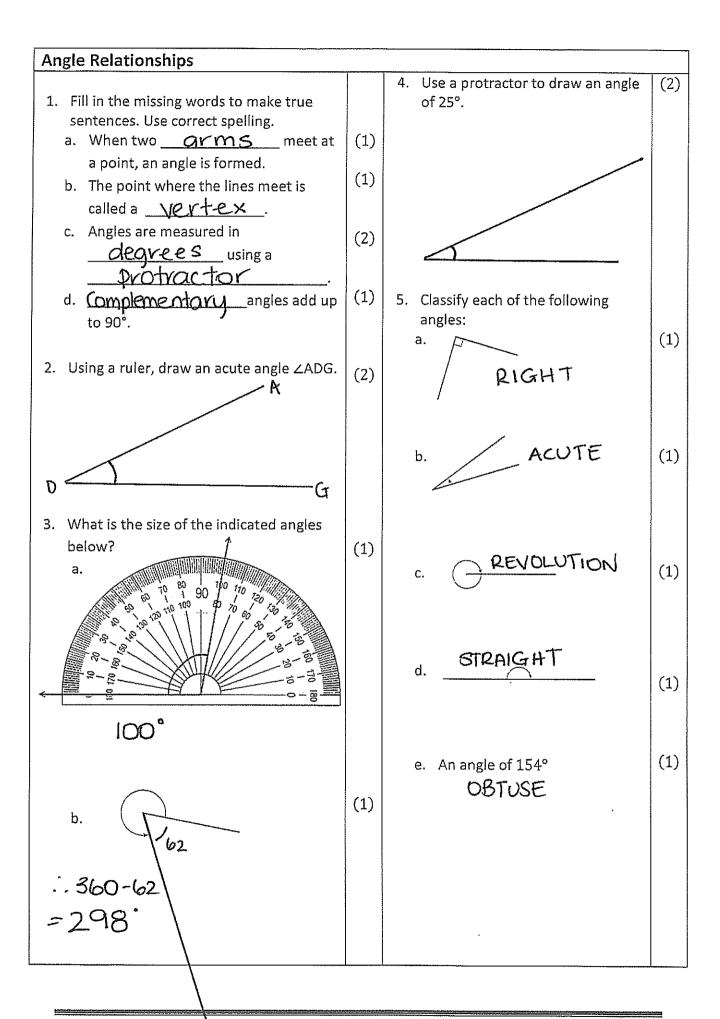
$$-4$$
 and -3

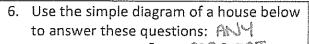
(1) * 11. The time in Sydney is always 3
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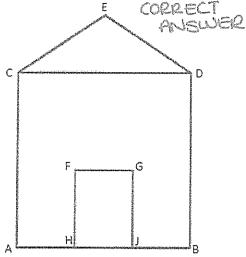
(2)



Sydney and London are 10 hours difference







- a. Name one acute angle ∠ECD,∠DCE,∠EDC, ∠CDE
- b. Name one right angle
 LA, LH, LF, LG, LJ,
 LB, LDCA, LACD,
 LCDB, LBDC (NOT LC or L)
- LCDB, LBDC (NOT LC or LD c. Name one obtuse angle LE, LDEC, LCED, LECA, LACE, LEDB,
 - ZBDE 'd. Name a pair of adjacent angles

 LECD TYDEA

LEDC JACOB

e. Name one set of parallel lines

f. Name one set of perpendicular lines

 Find the value of the missing pronumerals in each of the following angles. Show your working and give reasons for all your answers.

(2)

(2)

(2)

a. 120°

(Complementary angles add to 90')

(Right angle)

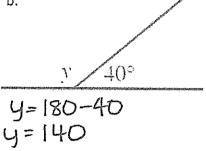
(1)

(1)

(1)

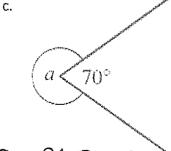
(1)

(1)

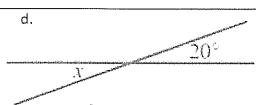


(supplementary angles add to 180)

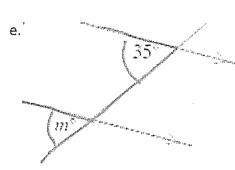
(straight angle)



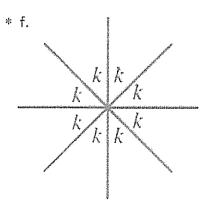
a = 360 - 70 a = 290(angles at a point add to 360) (revolution)



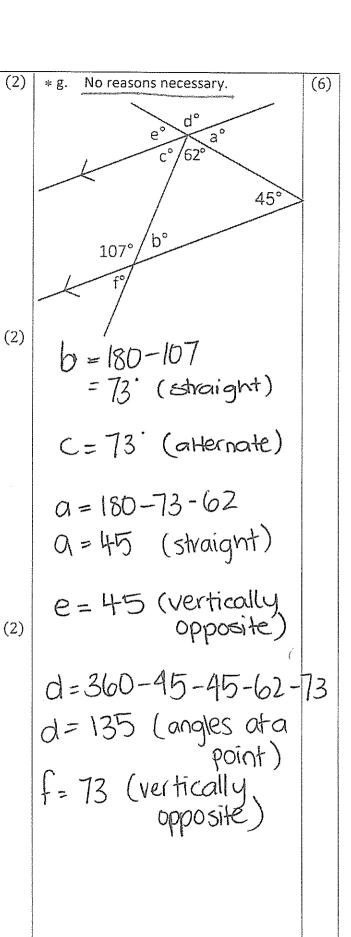
x = 20° (vertically opposite angles are equal)



m=35° (corresponding angles in parallel lines are equal)

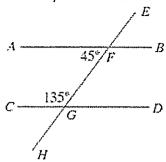


8k = 360 $k = 45^{\circ}$ (angles at a point add to 360')



* 8. Julia is seated in a Ferris wheel which makes one full revolution in 1 minute. Through what angle does Julia travel in 25 seconds?

(2) 9. Is AB parallel to CD? Give a reason for your answer.



(2)

135+45=180 .: ABII CD because the co-interior angles are equal.

