Anglo-Chinese School (Junior)

CONTINUAL ASSESSMENT 1 (2018)

PRIMARY 6

MATHEMATICS

Friday **23 February 2018** **1 h 30 min**

Name: _____ ( ) Class: 6.( ) Parent's Signature: _____

INSTRUCTIONS TO PUPILS

1 Do not turn over the pages until you are told to do so.

2 Follow all instructions carefully.

3 Answer ALL questions.

4 You are **not** allowed to use a calculator for this paper.

Section	Possible Marks	Marks Obtained
A	10	
B	15	
C	25	
Total	50	

This question paper consists of 16 printed pages (inclusive of cover page).

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Optical Answer Sheet

1	(1)	(2)	(3)	(4)
2	(1)	(2)	(3)	(4)
3	(1)	(2)	(3)	(4)
4	(1)	(2)	(3)	(4)
5	(1)	(2)	(3)	(4)
6	(1)	(2)	(3)	(4)
7	(1)	(2)	(3)	(4)

Section A

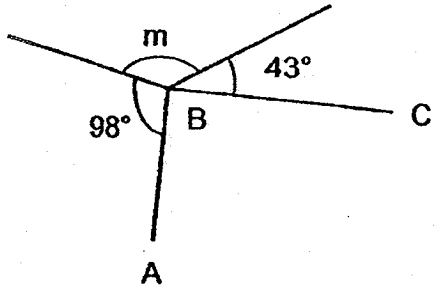
Questions 1 to 4 carry 1 mark each. Questions 5 to 7 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS). (10 marks)

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1. Simplify $7c - 2c + 9 - 4 + c$.

   1) $6c + 5$
   2) $6c - 5$
   3) $10c + 5$
   4) $10c - 5$

2. AB is perpendicular to BC. Find $\angle m$.



   1) 119°
   2) 129°
   3) 137°
   4) 219°

Sub-Total :

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3. Charmaine uses syrup and water in the ratio 3 : 5 to make lemon juice. She uses 330 ml of syrup. How much water does she use?

1) 66 ml
2) 110 ml
3) 198 ml
4) 550 ml

4. $8 \times 10 - 8 \times 7 = ___ \times 8 + 8$
What is the missing number in the blank?

1) 5
2) 2
3) 3
4) 4

5. Teddy had \$180. He spent $\frac{3}{5}$ of his money a pair of shoes and $\frac{3}{4}$ of the remainder to buy a T-shirt. How much did he spend on the T-shirt?

1) \$18
2) \$54
3) \$108
4) \$135

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6. $\frac{2}{5}$ of the mass of watermelon is equal to $\frac{3}{4}$ of the mass of a durian.

What is the ratio of the mass of the watermelon to the mass of the durian?

1) 2 : 3
2) 5 : 4
3) 15 : 8
4) 8: 15

7. Mrs Williams bought some flowers for her company event. 45% of the flowers are roses, 15% of the flowers are lily and the remaining flowers are sunflowers. Given that she bought 300 stalks of flowers in total, how many stalks of sunflowers did she buy?

1) 45
2) 120
3) 135
4) 150

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Section B1

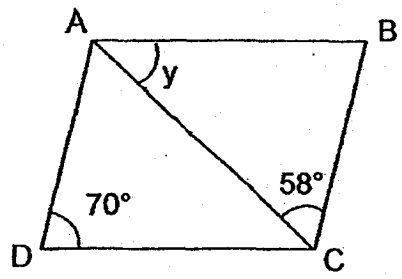
Questions **8** to **12** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(5 marks)

8. Find the value of $4r - \frac{r+3}{2} + 10$ when $r = 5$.

Ans : _____

9. ABCD is a parallelogram and AC is a straight line. $\angle ADC$ is 70° and $\angle ACB$ is 58°, find $\angle y$.



Ans : _____ °

Sub-Total :

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10. What is $\frac{4}{11} \div 10$?

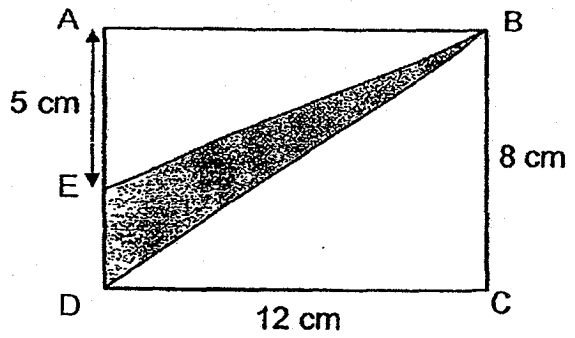
Leave your answer in the simplest form.

Ans : _____

11. Find the value of $96 \div (2 \times 4) + 15 - 9$.

Ans : _____

12. The figure below shows a rectangle ABCD and a shaded triange EBD. AE = 5 cm. Find the area of the shaded triangle.



Ans : _____ cm^2

Sub-Total :

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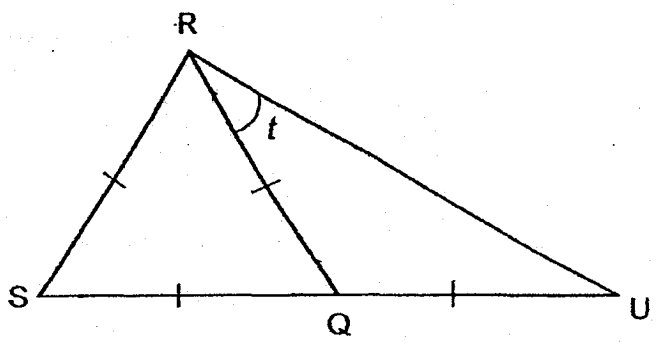
Section B2

Questions **13** to **17** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

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13. In the figure, RSQ is an equilateral triangle and SQU is a straight line. Find $\angle t$.



Ans : _____ °

14. Bag A has a mass of $\frac{2}{5}$ kg. The mass of Bag B is 4 times the mass of Bag A. What is the mass of Bag B? Express your answer as a mixed number.

Ans : _____ kg

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15. The ratio of Arjun's age to Brandon's age is 5 : 4. The ratio of Brandon's age to Calvin's age is 6 : 7. Find the ratio of Arjun's age to Brandon's age to Calvin's age in its simplest form.

Ans : _____

16. The usual price of a camera is $400. Lorraine bought the camera during a sale at a discount of 20% on the usual price. How much did Lorraine pay for the camera?

Ans : $ _____

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17. A dental clinic had $2b$ patients on Thursday. There were $(3b + 14)$ patients on Friday. Altogether, there were 109 patients on the two days. Find the value of b.

Ans : _____

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Section C

For questions **18** to **24**, show your working clearly question and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (25 marks)

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18. Adam, Ben and Carlos shared some marbles. Adam received $\frac{1}{5}$ of the marbles. Ben received 18 more marbles than Adam. Carlos received 54 marbles. How many marbles did they have altogether?

Ans : _____ [3]

Sub-Total:

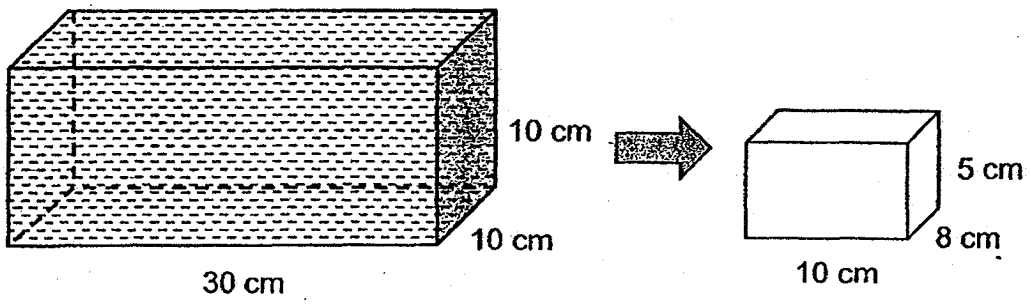
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19. Mr Ong spent $75.45 on 3 kg of prawns and one box of frozen scallops for his barbecue party. The prawns were sold at $1.45 for every 100 g. How much did the box of frozen scallops cost?

Ans : _____ [3]

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20. A rectangular tank measuring 30 cm by 10 cm by 10 cm is completely filled with water. The water is then poured into some rectangular containers to the brim without spilling. Each container measures 10 cm by 8 cm by 5 cm. What is the greatest number of containers that can be filled **completely** by water?



Ans : _____ [3]

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21. Roy used $\frac{1}{4}$ of his money on 3 pens and 6 notebooks. The cost of each pen is 3 times the cost of each notebook. He bought some more pens with $\frac{2}{3}$ of his remaining money. How many pens did Roy buy altogether?

Ans : _____ [4]

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22. There was $\frac{2}{5}$ as many muffins as cupcakes in a shop. After selling an equal number of muffins and cupcakes, the ratio of the number of muffins to the number of cupcakes left was 1 : 7. There was a total of 112 muffins and cupcakes in the shop at first.

(a) How many muffins were there at first?

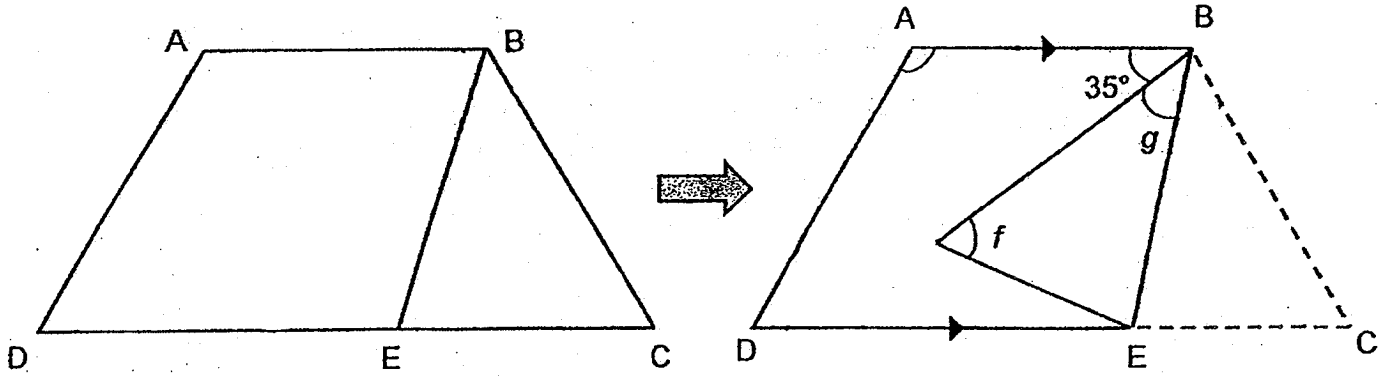
(b) How many muffins and cupcakes were sold altogether?

Ans : (a) _____ [1]

(b) _____ [3]

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23. Reuben has a piece of paper ABCD that is in the shape of a trapezium with AD = BC and ∠BAD = 113°. He folded it along the line BE as shown below.



(a) Find ∠*f*.

(b) Find ∠*g*.

Ans : (a) _____ [2]

(b) _____ [2]

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24. Melissa and Nurul had a total of 108 beads. Melissa used 3 times as many beads as Nurul to make some bracelets. The number of beads Nurul had left was 12 more than what she had used. She had twice as many beads left as compared to Melissa.

(a) How many beads did Nurul use?

(b) How many beads did Melissa have at first?

Ans : (a) _____ [2]

(b) _____ [2]

End of Paper

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EXAM PAPER 2018(P6)

SCHOOL : ACS

SUBJECT : MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7			
1	2	4	2	2	3	2			

8)4 x 5 20

5 + 3 = 8

8 ÷ 2 = 4

20 – 4 + 10 = 26

9)180° – 58° – 70° = 52°

10)4/11 ÷ 10/1 = 4/11 x 1/10 = 2/55

11)96 ÷ 8 = 12

12 + 15 = 27

27 – 9 = 18

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12) ½ x 5 x 12 = 30

½ x 12 x 8 = 48

12 x 8 96

96 – 48 – 30 = 18cm2

13)(180° – 120°) ÷ 2 = 30°

14)2/5 x 4/1 = 1 3/5 kg

15)A : B B : C

5 : 4 x6 6 : 7 x 4

A : B : C

30 : 24 : 28

15 : 12 : 14

16)400/1 x 80/100 = $320

17)2b + 3b + 14 = 5b + 14

109 – 14 = 95

95 ÷5 = 19

18)A→1/5 M

B→1/5 M

C→54

3u = 54 + 18 = 72

1u = 72 ÷ 3 = 24

5u = 24 x 5 = 120

They have 120 marbles altogether.

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19)$14.50 x 3 = $43.50

$75.45 – $43.50 = $31.95

The box of frozen scallops cost $31.95

20)7

21) ¼ m→3p + 6nb

¼ m→15nb

⅛ m→5p

¾ x 2/3 – ½ = 2/4

2/4m→10p

10 + 3 = 13

Roy bought 13 pens altogether

22)a)112 ÷ 14 = 8

8 x 4 = 32

b)3 + 3 = 6

8 x 6 = 48

23)a)67°

b)39°

24) a)472 – 318 = 154

154 ÷ 11 = 14

14 x 3 = 42

106 – 42 = 64

64 ÷ 4 = 16

b)(16x3) + 14 = 48 + 14 = 62

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