Anglo-Chinese School (Junior)

CONTINUAL ASSESSMENT (2020)

PRIMARY 6

MATHEMATICS

March 2020 **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).

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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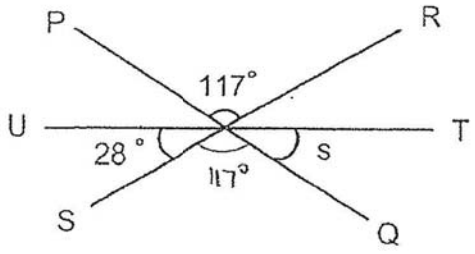
1. Simplify $7b + 8 + b - 4 - 2b$.

   1) $6b - 4$
   2) $6b + 4$
   3) $10b - 4$
   4) $10b + 4$

2. In the figure, PQ, RS and TU are straight lines as shown in the figure. Find $\angle s$.



   1) 28°
   2) 35°
   3) 62°
   4) 63°

Sub-Total :

3. In a class of 42 students, 24 are boys.
What is the ratio of the number of girls to the number of boys?

1) 1 : 4
2) 3 : 4
3) 4 : 3
4) 4 : 7

4. $6 \times 7 + 6 = 2 \times 7 +$ ☐
What is the missing number in the box?

1) 17
2) 32
3) 34
4) 64

5. James bought $\frac{3}{4}$ kg of peanuts. He packed the peanuts equally into some bags. Each bag weighed $\frac{1}{16}$ kg. How many bags of peanuts did he have?

1) 12
2) 16
3) 48
4) 64

Sub-Total : ☐

6. Ben, Jerry and Kumar had some flour. The ratio of the amount of flour Ben had to the amount of flour Jerry had was 2 : 3. Jerry had $\frac{4}{5}$ the amount of flour Kumar had. Kumar had 420 g of flour more than Ben. How much flour did Jerry have?

1) 240 g
2) 630 g
3) 720 g
4) 840 g

7. The original price of a pair of shoes was $50. At a sale, Adam was given a 20% discount. There was a 7% GST on the discounted price of the shoes. How much did Adam pay for the pair of shoes with GST?

1) $37.20
2) $42.80
3) $46.50
4) $53.50

Sub-Total : [ ]

Section B1

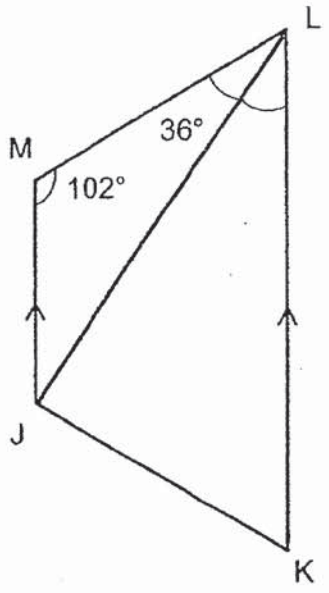
Questions **8** to **12** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(5 marks)

8. Find the value of $8p + \frac{p+3}{2} - 3$ when $p = 7$.

Ans : _____

9. JKLM is a trapezium. $\angle JML = 102°$ and $\angle MLJ = 36°$. Find $\angle JLK$.



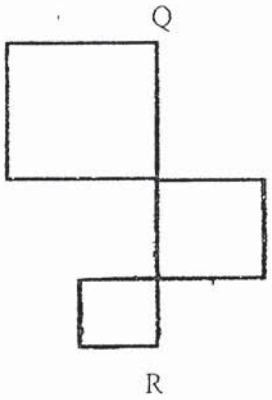
Ans : _____ °

Sub-Total : ☐

10. Find the value of $99 - 63 \div 9 + 7 \times 6$

Ans : _____

11. A piece of string 68 cm was bent to form 3 squares as shown below. Find the length of QR.



Ans : _____

Sub-Total : ☐

12. Find the value of $\frac{3}{7} \div \frac{9}{28}$. Give your answer as a mixed number in its simplest form.

Ans : _____

Sub-Total : [ ]

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. A bubble tea shop sold 7z cups of bubble tea on Monday. It sold (8z – 20) cups of bubble tea on Tuesday. It sold a total of 550 cups of bubble tea in 2 days. Find the value of z.

Ans : _____

14. Angie bought 3 kg of chocolates. She kept $\frac{2}{5}$ of it for herself and shared the rest equally with some children. Each child received $\frac{1}{5}$ kg of chocolates. How many children were there?

Ans : _____

Sub-Total : [ ]

15. James had blue and purple markers. The ratio of the number of blue markers to the number of purple markers is 2 : 3. He gave away 56 purple markers. In the end, the ratio of the number of blue markers to the number of purple markers is 3 : 1. How many blue markers did James have?

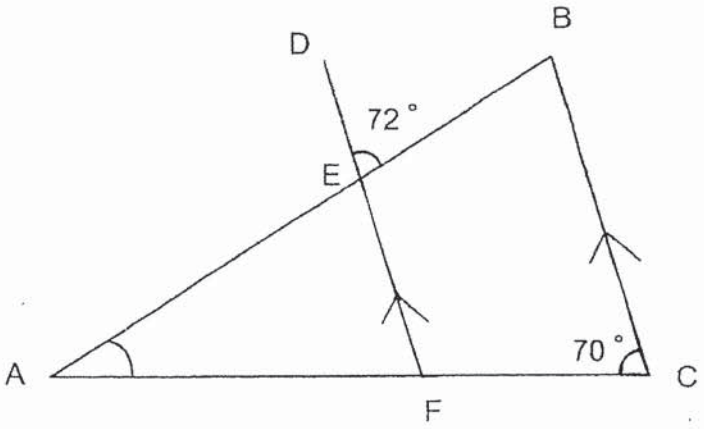
Ans : _____

16. There are 32 children in a group. 20 of them are boys. What percentage of the children are girls?

Ans : _____ %

Sub-Total : [ ]

17. In the figure below, ABC is a triangle. $\angle DEB = 72^\circ$ and $\angle FCB = 70^\circ$. BC is parallel to DF. Find $\angle EAF$.



Ans : _____°

Sub-Total : [ ]

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. A book cost \$5.40 more than a pen. Mindy bought 2 books and 4 times as many pens. She spent \$36.80 altogether. How much did each pen cost?

Ans : _____ [3]

19. Chester had 20 more stickers than Brian. Brian used $\frac{4}{7}$ of his stickers and Chester used $\frac{3}{5}$ of his stickers. In the end, Brian and Chester had the same number of stickers left. How many stickers did they have altogether at first?

Ans : _____ [3]

Sub-Total : ____

20. The breadth of a rectangle is $\frac{3}{5}$ of its length. The perimeter of the rectangle is 48 cm.

(a) What is the breadth of the rectangle?

(b) What is the area of the rectangle?

Ans : (a) _____ [2]

(b) _____ [1]

Sub-Total :

21. At first, Tim had some \$2 and \$10 notes in the ratio of 5 : 2. He then exchanged 2 pieces of \$10 notes with his mother for \$2 notes of the same value. In the end, the ratio of \$2 notes to \$10 notes is 5 : 1.

a) How many \$10 notes did he have at first?

b) How much money did he have at first?

Ans : (a) _____ [2]

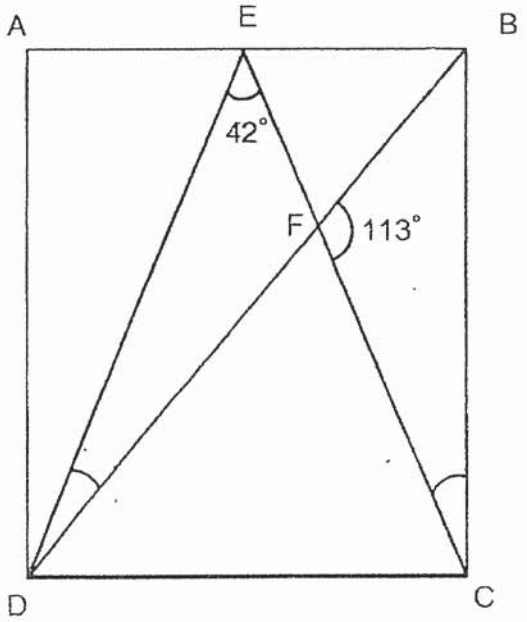
(b) _____ [2]

Sub-Total : [ ]

22. In the figure below, ABCD is a rectangle and ECD is an isosceles triangle. ED = EC. $\angle DEC = 42^\circ$ and $\angle BFC = 113^\circ$.

(a) Find $\angle ECB$

(b) Find $\angle EDB$



Ans : (a) _____ [2]

(b) _____ [2]

Sub-Total :

23. Mary had \$200. She spent $\frac{1}{5}$ of her money on some wet wipes and $\frac{3}{8}$ of the remaining money on some hand wash and the rest on masks.

(a) How much money did she spend on masks?

(b) Mary bought a total of 40 packs of surgical and N95 masks. The table below shows the cost of one pack of masks.

Type of mask	Cost of one pack of mask
Surgical	\$2
N95	\$7

How many packs of N95 masks did Mary buy?

Ans : (a) _____ [2]

(b) _____ [2]

Sub-Total : ☐

24. There were 40 more girls than boys in the school hall. $\frac{2}{5}$ of the girls and $\frac{1}{3}$ of the boys left the hall. In the end, there were 18 more girls than boys remaining in the hall. Find the total number of girls and boys in the hall at first.

Ans : _____ [4]

End of Paper

Sub-Total :

ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 6
SCHOOL : ACS(J)
SUBJECT : MATHEMATICS
TERM : CA1

SECTION A

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

SECTION B

Q8. 56+7+3/2-3
=56+10/2-3
=56+5-3
=61-3
=58

Q9. 180 °-102 °=78 °
∠JKL=78°-36°
=42°

Q10. 99-7+7X6
=99-7+42
=92+42
=134

Q11. 1U+1U+1U+1U=4U
4U+4U=8U
8U=68
1U=8.5
2U=17CM

Q12. 3/7X28/3=4/3=1⅓

Q13. MON=7Z
TUE=8Z-20
7Z+8Z-20=550
15Z=550+20
=570
Z=38

Q14. $\frac{2}{5} X \frac{3}{1} = \frac{6}{5}$ KG

$3 - \frac{6}{5} = \frac{15}{5} - \frac{6}{5}$

$= \frac{9}{5}$ KG

$\frac{9}{5} \div \frac{1}{5} = \frac{9}{5} X \frac{5}{1}$

=9 children.

Q15. 7U = 56

1U = 8

6U = 48

Q16. 32 – 20 = 12

$\frac{12}{32} X\ 100$

$= \frac{300}{8}$

=37.5%

Q17. 180° - 72° - 70° = 38°

Q18. 10U + 10.80 = 36 – 80

10U = 36.80 – 10.80

1U = 2.60

Q19. $\frac{3}{7} = \frac{2}{5}$

$\frac{6}{14} = \frac{6}{15}$

1U = 20

29U = 580

Q20. 16U = 48

1U = 3

a.) 3U = 9

5U = 15

b.) 15 X 9 = 135

Q21.a) 5U + 10 = 10U – 10
10 = 5U – 10
20 = 5U
1U = 4
20 = 8

b) 5U = 20
20 X $2 = $40
8 X 10 = $80
$40 + $80 = $120

Q22.a) 21°

b) 25°

Q23.a) $\frac{1}{2}$ x 200 = 100

b) 40x2 = 80
100 – 80 = 20
20 ÷ 5 = 4

Q24. 10U + 18 = 9U + 24
1U = 6
30U = 180
180 + 40 = 220

2ND