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Anglo-Chinese School (Junior)



CONTINUAL ASSESSMENT 1 (2016) PRIMARY 6 MATHEMATICS

Monday

7 March 2016

1 h 30 min

Name: _____ () Class: 6.(. .)

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 14 printed pages (inclusive of cover page),

Optical Answer Sheet

1

2

3

4

5

6

7

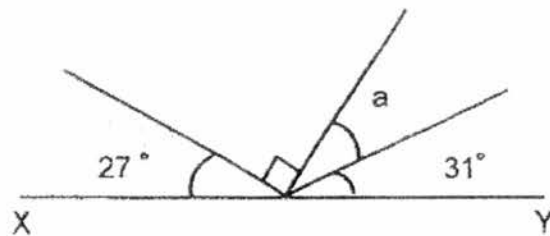
Section A

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)

1. David had \$12. He spends \$3m on a book and \$2m on a file. How much money had he left?

- 1) \$5m
- 2) \$7m
- 3) \$(12 - 5m)
- 4) \$(12 - 6m)

2. XY is a straight line as shown in the figure. Find $\angle a$.



- 1) 32°
- 2) 42°
- 3) 59°
- 4) 63°

3. At a cinema, the number of adults to the number of children was 2 : 5. Of the adults, the ratio of the number of men to the number of women was 2 : 3. What was the ratio of the number of men to the number of children?

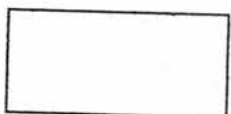
- 1) 2 : 5
- 2) 2 : 15
- 3) 3 : 25
- 4) 4 : 25

4. $4 \times 48 = 4 \times 42 + 4 \times \underline{\hspace{2cm}}$

- 1) 4
- 2) 6
- 3) 12
- 4) 60

5. Which of the following fractions is smaller than $\frac{1}{3}$?

- 1) $\frac{3}{12}$
- 2) $\frac{4}{10}$
- 3) $\frac{4}{9}$
- 4) $\frac{3}{7}$

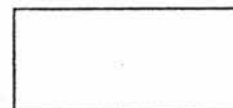


6. Donald has a collection of \$1 and 50c coins in the ratio 3 : 4. The total value of all the coins is \$70. Find the number of 50c coins Donald has.

- 1) 14
- 2) 30
- 3) 40
- 4) 56

7. In a group of 80 children, 48 of the children are girls. What percentage of the children are boys?

- 1) 32
- 2) 40
- 3) 60
- 4) 80



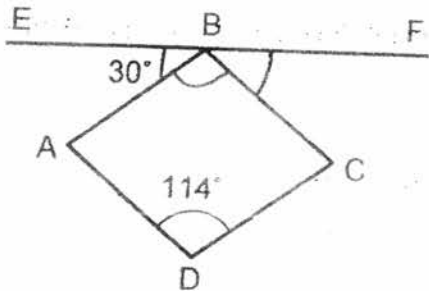
Section B1

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. A tennis ball weighs m grams and a baseball weighs 200 g more. What is the weight of 3 tennis ball and 2 baseballs? Give your answer in grams.

Answer : _____ g

9. In the figure below, ABCD is a rhombus. EBF is a straight line. $\angle EBA = 30^\circ$ and $\angle ADC = 114^\circ$. Find $\angle FBC$.



Answer : _____°

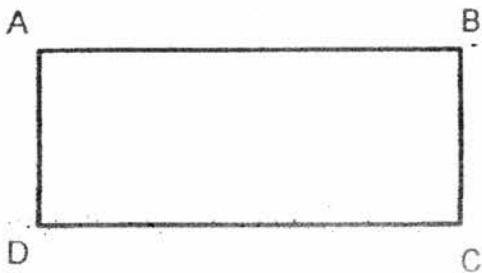
10. Find the value of $\frac{3}{7} \div 12$

Answer : _____

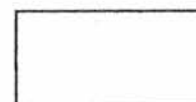
11. Find the value of $30 + 90 \div 6 \times (15 - 8) + 2$.

Answer : _____

12. In the figure below, ABCD is a rectangle. Its perimeter is 42 cm and AB is 15 cm. Find the length of BC.



Answer : _____ cm

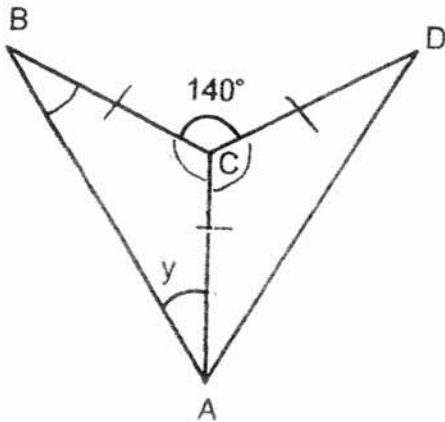


Section B2

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)

13. In the figure below, ABC and ACD are triangles. $AC = CB = CD$. Find $\angle y$.



Answer : _____ °

14. 30% of the books on a shelf are textbooks and the rest are reference books. Given that 30% of the reference books are in Chinese, what percentage of books on the shelf are non-Chinese reference books?

Answer : _____ %

Sub-Total :

15. A ruler costs y cents and a pen costs 50 cents more than a ruler. Ali wants to buy 1 pen and 2 rulers but he is short of 20 cents. How much money does he have? Give your answer in terms of y .

Answer : _____¢

16. Harold uses $\frac{2}{3}$ minute to complete 1 set of exercise. He trained for $\frac{1}{3}$ hours without stopping. How many sets of exercise did he complete?

Answer : _____

17. The ratio of the area of Triangle A to the area of the shaded portion is 5 : 2. The area of Triangle B is 2 times the area of Triangle A. What is the ratio of the shaded area to the total area of the figure?



Answer : _____

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. There are cakes, buns and tarts in a bakery. $\frac{2}{5}$ of them are cakes. $\frac{5}{9}$ of the remainder are buns and the rest are tarts. There are 48 tarts. How many cakes, buns and tarts are there altogether?

Answer: _____ [3]

19. A piece of chicken wing costs \$1. When Zachary buys 4 chicken wings, he can get 1 chicken wing free. What is the greatest number of chicken wings that Zachary can buy with \$40?

Answer: _____ [3]

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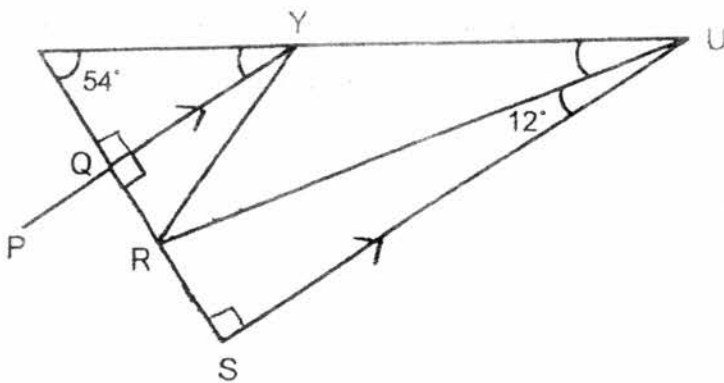
20. A rectangular tank is $\frac{1}{4}$ filled with water. Another 450cm^3 of water is poured into the tank so that it is $\frac{1}{3}$ filled with water. How much more water is required to fill up the tank completely?

Answer : _____ [3]

21. In the figure below, $PY \parallel SU$ and $\angle RQY = 90^\circ$.

Find

- a) $\angle TUR$ and
b) $\angle TYQ$



Answer: (a) _____ [2]

(b) _____ [2]

22. Joanne had a total of 700 red, blue and green beads. $\frac{2}{5}$ of the beads were red and the rest were blue and green. She used an equal number of blue and green beads to make some necklace. In the end, she had $\frac{1}{3}$ of the blue beads and $\frac{1}{2}$ of the green beads left.

- a) How many beads were blue and green?
- b) What was the total number of beads left?

Answer: (a) _____ [1]

(b) _____ [3]

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23. Lionel and Dennis each have some sweets. If Lionel gives 26 sweets to Dennis, both of them will have the same number of sweets. If Dennis gives 12 sweets to Lionel, the number of sweets that Lionel has to the number of sweets that Dennis has will be in the ratio 5 : 1. How many sweets does each boy have?

Answer : _____

24. John spent some money on 25 notebooks. He spent the same amount of money on 20 files. Each notebook cost \$1 less than each file. How much did John spend altogether?

Answer : _____ [4]

End of Paper

EXAM PAPER 2016

LEVEL : PRIMARY 6

SCHOOL : ANGLO CHINESE

SUBJECT : MATHEMATICS

TERM : CA1

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

<p>Q8. $T \rightarrow 3 \times M = 3M$ $B \rightarrow m + 200g$ $B \rightarrow 2 \times m + 200g$ $= (2m + 400)g$ Total $\rightarrow 2m + 400g + 3m$ $= (5m + 400)g$</p>	<p>Q9. $180^\circ - 114^\circ - 30 = 36^\circ$</p>
<p>Q10. $\frac{3}{7} \times \frac{1}{12} = \frac{1}{28}$</p>	<p>Q11 $30 + 90 \div 6 \times (15 - 8) + 2$ $= 30 + 90 \div 6 \times 7 + 2$ $= 30 + 15 \times 7 + 2$ $= 30 + 105 + 2$ $= 135 + 2$ $= 137$</p>
<p>Q12. $42 - 15 - 15 = 12$ $12 \div 2 = 6$</p>	<p>Q13. $360^\circ - 140^\circ = 220^\circ$ $220^\circ \div 2 = 110^\circ$ $180^\circ - 110^\circ = 70^\circ$ $\angle y \rightarrow 70^\circ \div 2 = 35^\circ$</p>
<p>Q14. $\frac{70}{100} \times 70 = \frac{490}{10} = 49$ $\frac{30}{100} \times 70 = \frac{210}{10} = 21$ Ans: 49</p>	<p>Q15. $(y + 50)\text{¢} \rightarrow \text{pen}$ $\text{ruler} \rightarrow y\text{¢}$ $2 \text{ ruler} \rightarrow 2 \times y = 2y$ $2y + y + 50 - 20$ $= (3y + 30)\text{¢}$</p>
<p>Q16. $\frac{2}{3} \text{ min} \rightarrow 40$ $\frac{1}{3} \text{ hours} \rightarrow 20 \text{ mins}$ $20 \times 60 = 1200$ $1200 \div 40 = 30$ Ans: 30 sets</p>	<p>Q17. $10 - 2 = 8$ S : T 2 : 13</p>

<p>Q18.</p> <p>$4u \rightarrow 48$ $1u \rightarrow 48 \div 4 = 12$ $1u \rightarrow 15 \times 12 = 180$</p> <p>There are 180 cakes buns and tars Altogether.</p>	<p>Q19.</p> <p>$4 \times 1 = 4$ $4 + 1 = 5$ $\\$4 \rightarrow 5$ $\\$40 \div 4 = 10$ $10 \times 5 = 50$</p> <p>The greatest number of chicken wings that Zachary can buy with \$40 is \$50</p> <p>Ans: 50 chicken wings</p>
<p>Q20.</p> <p>$\frac{3}{4} + 1350 \rightarrow 1$ $\frac{1}{4} \rightarrow 1350$ $\frac{1}{2} \rightarrow 1350 \times 2 = 2700$? much $\rightarrow 2700 + 900 = 3600$</p> <p>Ans: 3600 cm^3</p>	<p>Q21.</p> <p>a) $\angle TUS = 180^\circ - 90^\circ - 54^\circ = 36^\circ$</p> <p>$\angle TUR = 36^\circ - 12^\circ = 24^\circ$ $\angle TUR = 24^\circ$</p> <p>b)</p> <p>$\angle TYQ = 180^\circ - 90^\circ = 90^\circ$ $\angle TYQ = 180^\circ - 90^\circ - 54^\circ = 36^\circ$</p> <p>$\angle TYQ$ IS 36°</p>
<p>Q22.</p> <p>a) $700 \div 5 = 140$ $1u \rightarrow 140$ $3u \rightarrow 3 \times 140 = 420$</p> <p>b) $2p + 3u \rightarrow 420$ $2u = 1p$ $2 \times 2 = 4$ $7u \rightarrow 420$ $1u \rightarrow 420 \div 7 = 60$ $2u \rightarrow 2 \times 60 = 120$ $120 \times 2 = 240$ $700 - 240 = 460$</p> <p>Ans: a) 420 beads b) 460 beads</p>	<p>Q23.</p> <p>$4u \rightarrow 26 + 26 + 12 + 12 = 76$ $1u \rightarrow 76 \div 4 = 19$ $D \rightarrow 19 + 12 = 31$ $L \rightarrow (19 + 12 + 26 + 26 = 83)$</p>
<p>Q24.</p> <p>5 notebooks $\rightarrow \\$20$ 1 notebook $\rightarrow \\$20 \div 5 = \\4 1 file = \$5 25 notebooks + 20 file = $25 \times 4 + 20 \times 5$ = \$200</p>	