Anglo-Chinese School
(Junior)

SEMESTRAL ASSESSMENT 1 (2010)
PRIMARY 4

MATHEMATICS

Wednesday   12 May 2010   1 h 45 min

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO.

Follow all instructions carefully.

There are 45 questions in this booklet.

Answer ALL questions.

Name:_____)

Class_____

Section	Possible Marks	Marks Obtained
A	40	
B	40	
C	20	
TOTAL	100	

Parent's Signature :_____

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

Section A (20 × 2 marks)

For each of the following questions, choose the correct answer and shade the correct oval (1,2,3 or 4) on the Optical Answer Sheet provided.

1. What is the quotient when 5604 is divided by 6?

    (1)   834
    (2)   934
    (3)   8034
    (4)   9034

2. Round off the product of 759 and 23 to the nearest hundred.

    (1)   17000
    (2)   17400
    (3)   17450
    (4)   17500

3. Pears are sold in boxes of 6 only. Each box costs \$8. Sean has \$100. What is the maximum number of pears Sean can buy with \$100?

    (1)   48
    (2)   62
    (3)   72
    (4)   96

4. Which of the following fractions is the smallest?
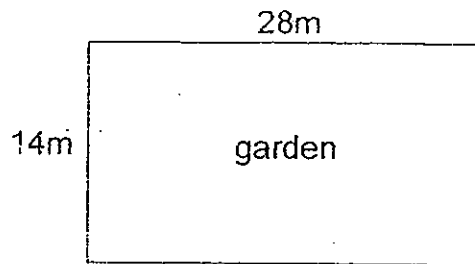
    (1) $\dfrac{1}{3}$

    (2) $\dfrac{2}{7}$

    (3) $\dfrac{2}{5}$

    (4) $\dfrac{4}{5}$

5. Bryan has 5 times as many stamps as Arkash. If Arkash has 1640 fewer stamps than Bryan, how many stamps do they have altogether?

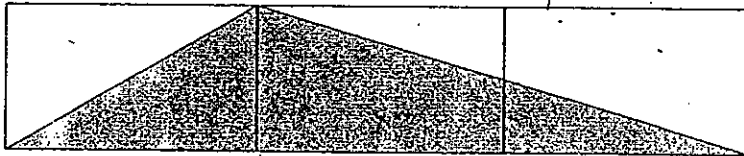   (1)   410
    (2)   820
    (3)   2050
    (4)   2460

6. Mr Tan has a rectangular garden that is 28m long and 14m wide. If he places one lamp post 7m apart from each other around the garden, how many lamp posts will he need to complete the garden?

28m

14m | garden

(1) 10
(2) 12
(3) 14
(4) 18

7. What fraction of the figure below is shaded? (Give your answer in its simplest form.)

(1) $\dfrac{1}{5}$

(2) $\dfrac{1}{2}$

(3) $\dfrac{1}{3}$

(4) $\dfrac{1}{4}$

8. How many fifths are there in $9\dfrac{3}{5}$?

(1) 42

(2) 44

(3) 45

(4) 48

9. $\dfrac{21}{9} = 2\dfrac{\square}{3}$

The number in the box is _____.

(1) 1
(2) 2
(3) 3
(4) 4

10. $10\dfrac{1}{4} - 2\dfrac{7}{8} = $ _____.

(1) $7\dfrac{1}{4}$

(2) $7\dfrac{3}{8}$

(3) $8\dfrac{3}{4}$

(4) $8\dfrac{5}{8}$

The table below shows the favourite movies of 3 classes. Study the table below carefully and answer questions 11 and 12.

Class	X- Men	Star Wars	Spiderman	Transformers
Primary 4A	5	22	7	6
Primary 4B	12	11	4	?
Primary 4C	10	9	1	18
Total	27	42	12	39

11. How many pupils in 4B chose "Transformers" as their favourite movie?
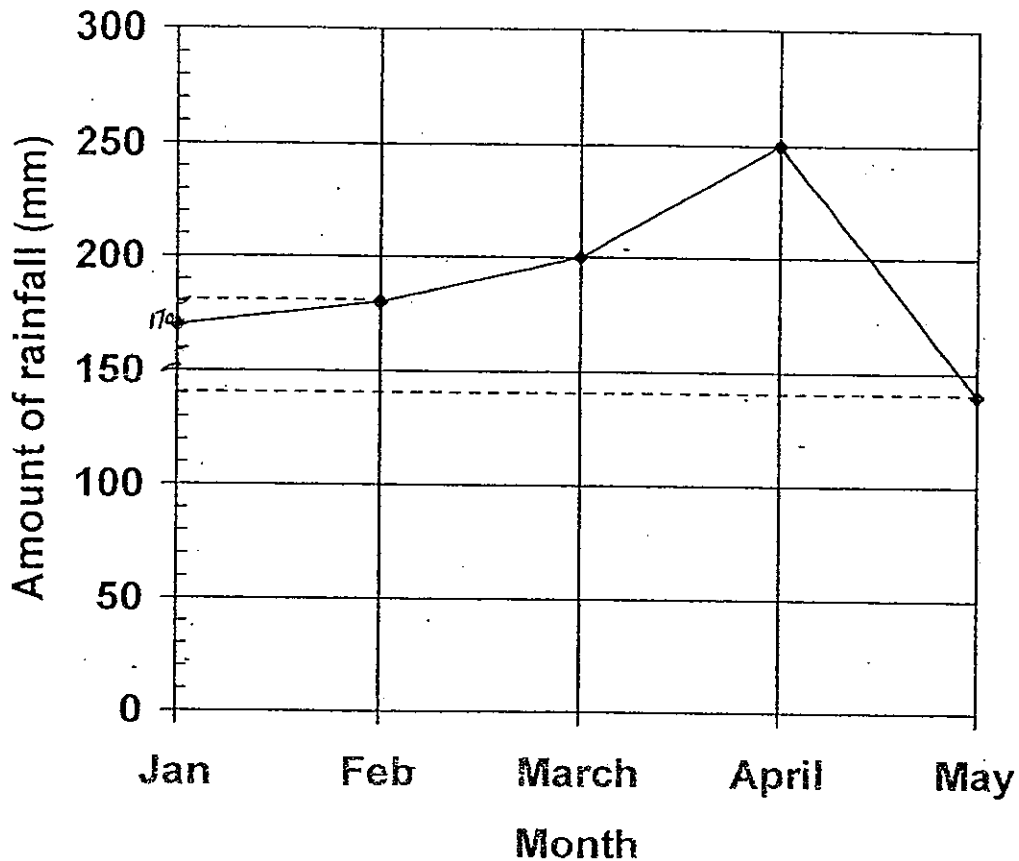
(1) 12
(2) 15
(3) 24
(4) 27

12. Which was the least popular movie among the three classes?

(1) X-Men
(2) Star Wars
(3) Spiderman
(4) Transformers

The line graph shows the amount of rainfall recorded in Singapore from January to May in a certain year. Study the graph carefully and answer questions 13 and 14.

13. What is the difference in the amount of rainfall between the driest and the wettest months?

(1) 50 mm
(2) 70 mm
(3) 80 mm
(4) 110 mm

14. In which month was there 30 mm less rainfall than in March?

(1) May
(2) April
(3) January
(4) February

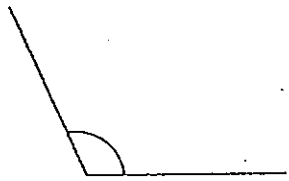15. Timmy is facing the south-west direction. Which of these turns will result in him facing south?

   (1)   45° anti-clockwise
   (2)   90° anti-clockwise
   (3)   180° clockwise
   (4)   270° clockwise

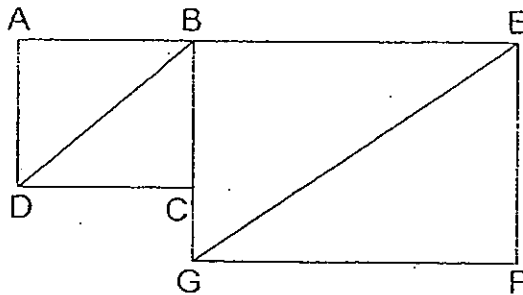16. Which of the following angles is smaller than 90°?
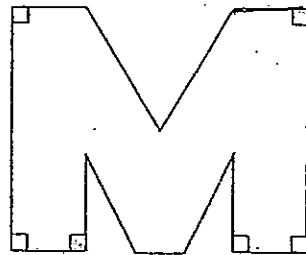
   (1)

   (2)

   (3)

   (4)

Sub - total:

17. The figure below is made up of 4 triangles. Which statement is **true**?

(1)   BD is parallel to EG
(2)   BE is perpendicular to DC
(3)   CG is parallel to EF
(4)   AD is perpendicular to BC

18. Look at the figure below. How many pairs of perpendicular lines are there?

(1)   2
(2)   5
(3)   6
(4)   9

19. A piece of wire has been bent into the shape of a rectangle. The length of the rectangle is 28cm and its width is half its length. How long is the piece of wire?

(1)   42 cm
(2)   56 cm
(3)   84 cm
(4)   112 cm

20. The area of a square is 36 cm². What is the perimeter of the square?

(1)   4 cm
(2)   6 cm
(3)   24 cm
(4)   36 cm

Section B (20 × 2 marks)

For each question, write your answer in the spaces provided. Give your answer in the units stated.

21. The **second** largest 5-digit number that can be formed with the digits 4, 7, 2, 3 and 9 is _____ .

22. Write 48 309 in words.

23. Use the clues below to find the number.
    - It is a 4-digit odd number.
    - The digit 1 is in the hundreds place.
    - The value of the digit 2 is 20.
    - The digit in the thousands place is three times the digit in the tens place.
    - The value of the digit in the ones place is one quarter the value of the digit in the tens place.

    The number is _____.

24. There are 3150 people at a concert when rounded off to the nearest ten. The greatest possible number of people at the concert is _____.

25. Find the product of the first and fifth multiple of 9.

Sub - total:

26. Write down all the common factors of 18 and 48.

27. Arrange the following fractions from the smallest to the largest:

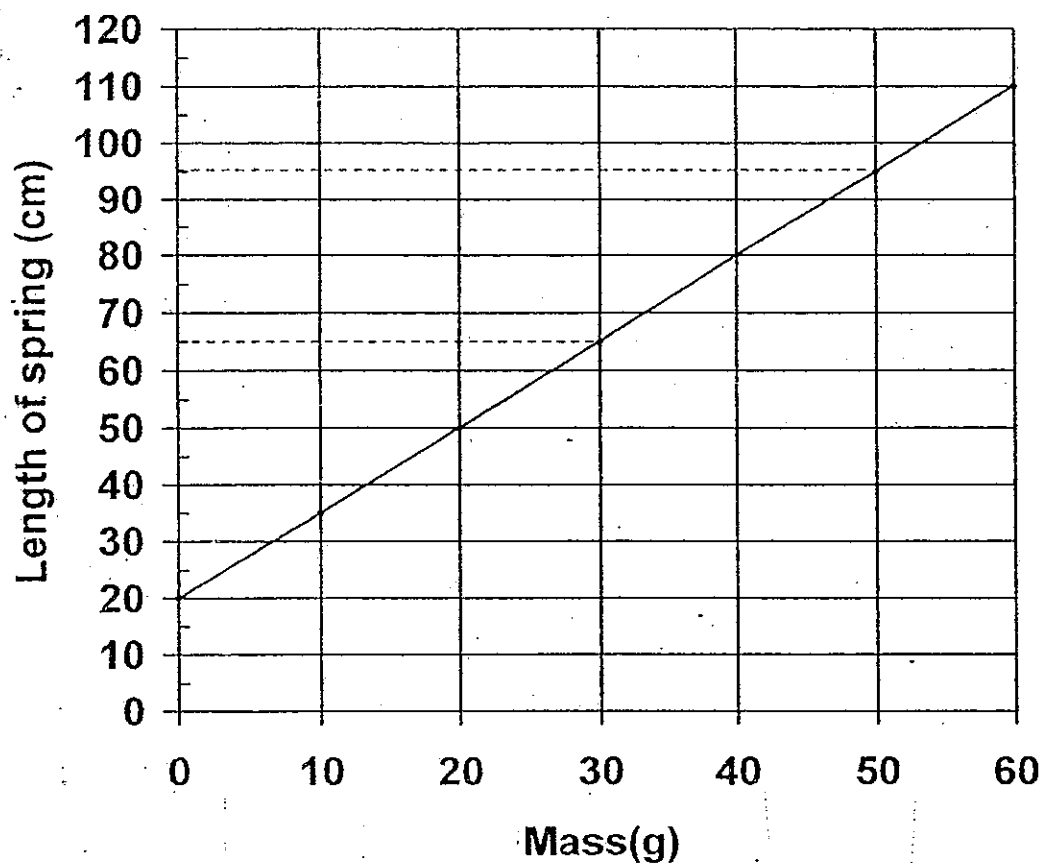$$\frac{6}{7} , \frac{2}{3} , \frac{5}{12}$$

28. $\dfrac{\Box}{\Box} \times 48 = 80 \div 5$

29. The mass of a sack of rice was 1kg. Mrs Tan gave $\frac{1}{2}$ of it to her neighbour

and cooked $\frac{1}{4}$ kg for dinner. How much rice had she left?

g

30. 16 out of 56 pens are red. The rest are blue. What fraction of the pens are blue? Give your answer in the simplest form.

31. Jane bought some muffins. $\dfrac{3}{10}$ of the muffins were blueberry muffins. $\dfrac{4}{7}$ of the remaining muffins were chocolate muffins. The rest were banana muffins. What fraction of the muffins were banana muffins?

Sub - total

The line graph below shows the length of a spring when various masses are hung on it. Study the graph to answer questions 32 and 33.

32. A mass of 30g is hung on the spring. How many centimetres does the spring stretch?

em

33. What is the increase in the length of the spring when the mass of the object is increased from 20g to 60g?

cm

The table below shows the number of cups and jugs Uncle Lee sold at his shop. Study the table and answer questions 34 and 35.

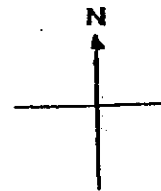| Day	Number of cups sold	Number of jugs sold
Thursday	22	12
Friday	29	15
Saturday	58	21
Sunday	61	27

34. On which day did Uncle Lee sell 14 more cups than jugs?

35. If each jug was sold at $14, how much money did Uncle Lee collect in total from the sale of his jugs on both Saturday and Sunday?

$

36. Draw and label an angle of 120° using the line below.

37. The following grid shows the positions of letters J, M, P and V. Study the grid carefully and answer questions 37(a) and 37(b).
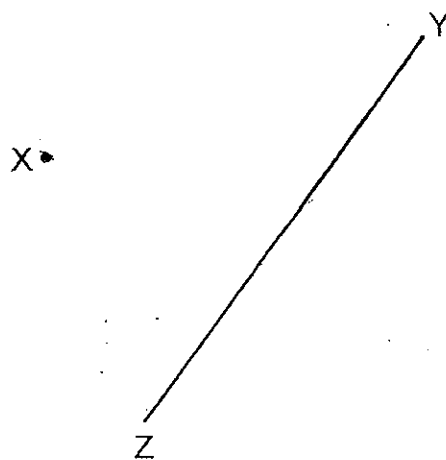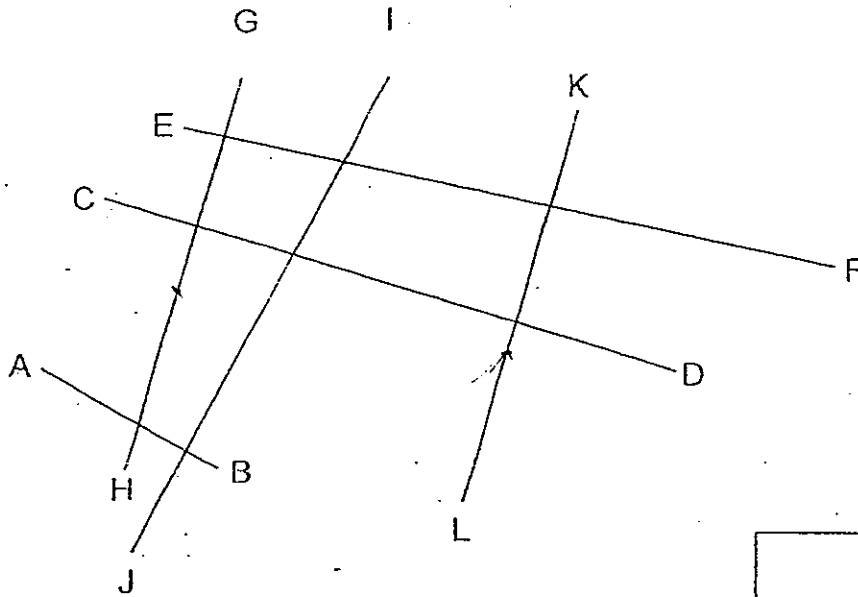
		M	V
J			
	P		

N ↑

37(a) V is _____ of M.

37(b)· J is _____ of P.

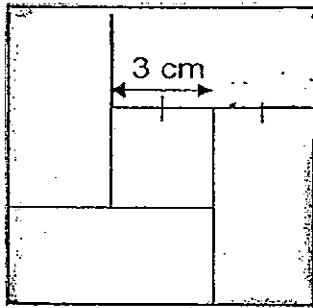38. Draw a line perpendicular to line YZ passing through point X.

Y

X•

Z

39. Which 2 lines are parallel to each other?

40. The figure below is made up of 4 identical rectangles and a square. If one side of the square is 3 cm, find the perimeter of the whole figure. (Figure not drawn to scale.)

cm

Section C (5 × 4 marks)

Work out the following sums carefully. Show each step of your working clearly as marks will be given for working and relevant statements.
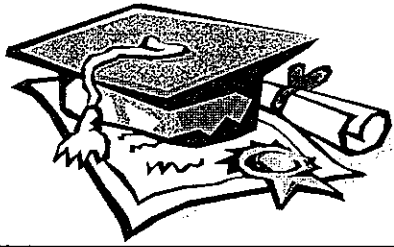
41. Ian bought a radio, a television and a computer for $5109. The radio costs $1288 less than the computer. The television costs $475 more than the computer. How much did Ian pay for the television?

42. Zachary is 10 years older than Douglas. In 4 years' time, he will be twice as old as Douglas. How old is Zachary now?

Sub - total:

43. There were three times as many cats as dogs at the pet clinic. After 13 cats had left the clinic and another 5 dogs came to the clinic, there were an equal number of cats and dogs in the end. How many cats were there at the clinic at first?

44. Mr Teo's monthly salary is $3542. He gives $\frac{2}{7}$ of it to his children and spends twice as much on daily expenses. If he saves the rest of the money, how much does he save in a year?

45. $\frac{4}{9}$ of a container was filled with oil. When 125 $m\ell$ of oil was poured in, the container became half full. What was the capacity of the container?
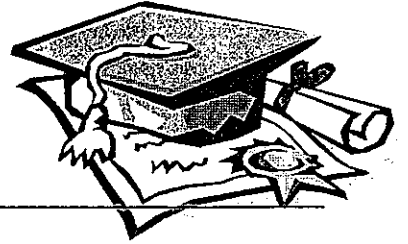
End of paper.

ANSWER SHEET

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
2	4	3	2	4	2	2	4	1	2	2	3	4	3	1	4	3

Q18	Q19	Q20
3	3	3

21)97423   22)forty-eight thousand, three hundred and nine   23)6125

24)3154   25)405   26)1,2,3,6   27)5/12, 2/3, 6/7   28)1/3

29)250g   30)5/7   31)3/10   32)45cm   33)60cm
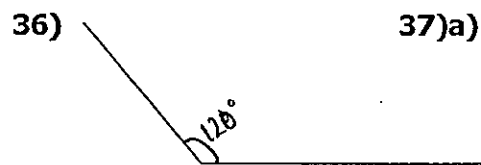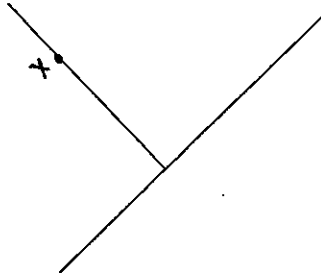
34)Friday   35)$672   36)   37)a)East   b)North-West

38)

39)GH//KL   40)36cm   41)$2449   42)16 years old

43)27 cats   44)$6072   45)2250ml