Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014
MATHEMATICS
BOOKLET A
PRIMARY FOUR

Name: _____ ( ) **Class: Primary 4** ___

Date: 29 October 2014 **Duration of Booklet A & B: 1h 45min**

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 7 printed pages, including cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answer on the Optical Answer Sheet (OAS) provided.

SECTION A - Multiple Choice Questions (30 MARKS)

Questions 1 to 15 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).

1. 27 thousands, 6 hundreds and 8 tens is the same as _____.

   (1) 27 068

   (2) 27 086

   (3) 27 608

   (4) 27 680

2. Which one of the following is a common factor of 54 and 63?

   (1) 6

   (2) 7

   (3) 8

   (4) 9

3. In a cinema, there are 26 rows of seats. In each row, there are 18 seats.

   How many seats are there in the cinema altogether?

   (1) 144

   (2) 234

   (3) 468

   (4) 520

4. Arrange the following fractions from the smallest to the greatest.

$$\frac{2}{3}, \frac{3}{4}, \frac{5}{8}$$

(smallest) *(greatest)*

(1) $\frac{2}{3}, \frac{5}{8}, \frac{3}{4}$

(2) $\frac{3}{4}, \frac{5}{8}, \frac{2}{3}$

(3) $\frac{5}{8}, \frac{2}{3}, \frac{3}{4}$

(4) $\frac{3}{4}, \frac{2}{3}, \frac{5}{8}$

5. How many one-sixths are there in 3 wholes?

(1) 18

(2) 12

(3) 9

(4) 6

6. Express $2\frac{1}{3}$ years in months.

(1) 28

(2) 24

(3) 7

(4) 4

7. In which of the following numbers does the digit 6 stands for 6 hundredths?

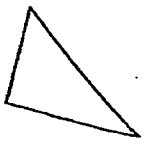
(1) 173.816

(2) 264.891

(3) 324.568

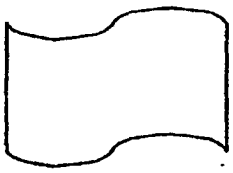
(4) 437.682

8. Which of the following figures cannot tessellate?

(1) 

(2) 

(3) 

(4) 

9. 45.008 expressed as a fraction is _____.

(1) $\frac{458}{1000}$

(2) $45\frac{4}{5}$

(3) $45\frac{2}{25}$

(4) $45\frac{1}{125}$

10. Which one of the following numbers when rounded off to the nearest hundred becomes 59 000?

(1) 58 093

(2) 58 848

(3) 59 028

(4) 59 853

11. A square garden has a perimeter of 48 m. What is its area?

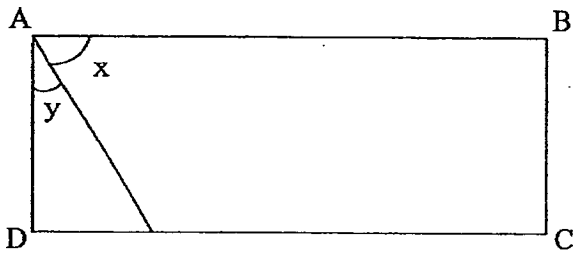
(1) 12 m²

(2) 24 m²

(3) 124 m²

(4) 144 m²

12. In the figure below, ABCD is a rectangle.



Given that the size of $\angle y$ is 30°, find $\angle x$.

(1) 15°

(2) 45°

(3) 60°

(4) 90°

13. At a party, every 7^{th} guest gets a voucher and every 9^{th} guest gets a mug. What is the position of the first guest who will get both a voucher and a mug?

(1) 27

(2) 36

(3) 42

(4) 63

14. Father drove from Town A to Town B. The journey took 7 hours 15 minutes. He set off at 8.50 p.m. What time did he arrive at Town B?

(1) 3.05 a.m.

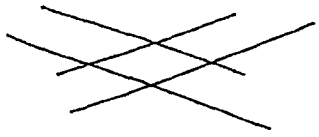
(2) 3.50 a.m.

(3) 4.05 a.m.

(4) 4.50 a.m.

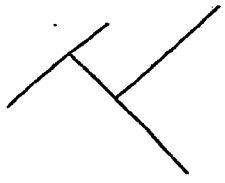
15. Which of the following figures contains both parallel and perpendicular lines?

(1)

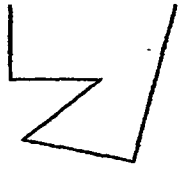


(2)

(3)



(4)



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014
MATHEMATICS
BOOKLET B
PRIMARY FOUR

Name: _____ ( ) Class: Primary 4___

Date: 29 October 2014 Duration of Booklets A & B: 1h 45min

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 17 printed pages, including cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.

Section	Maximum Marks	Marks Obtained
A. Multiple-Choice Questions	30	
B. Short Answers	40	
C. Problem Sums	30	
Total Marks	100	

SECTION B - Short Answers (40 Marks)

Questions 16 to 35 carry 2 marks each. Show all workings clearly.
Write your answer in the space provided. Give your answers in the units stated and in its simplest form whenever possible.

16. 96 084 = 90 000 + 6 000 + _____ + 4

What is the missing number?

Answer : _____

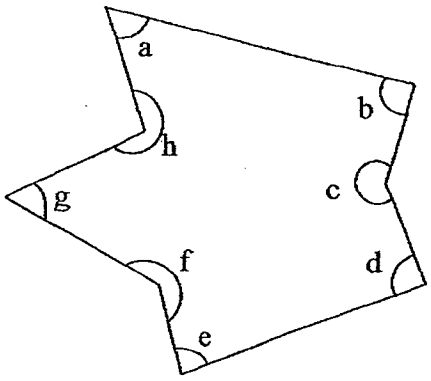
17. Find the value of $1-\frac{1}{3}-\frac{1}{4}$.

Answer : _____

18. What is the value of the digit **6** in 76 254?

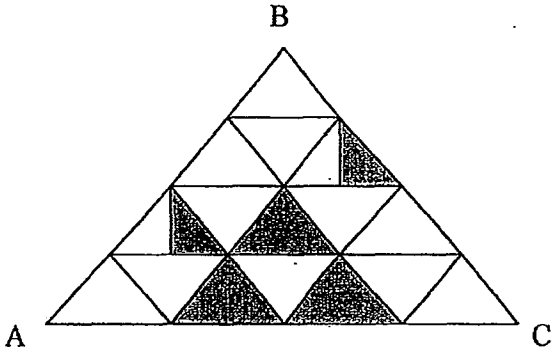
Answer : _____

19. In the figure, two of the angles are right angles. Name the angles.



Answer : ∠_____ and ∠_____

20. In the figure below, triangle ABC is made up of 16 triangles of the same size.
What fraction of triangle ABC is shaded? Give your answer in the simplest form.



Answer : _____

21. Sofia mixed 1.08 ℓ of orange syrup with water to make drinks for 8 people. The amount of water used was twice that of the orange syrup.
How much drink will each one get?

Answer : _____ ℓ

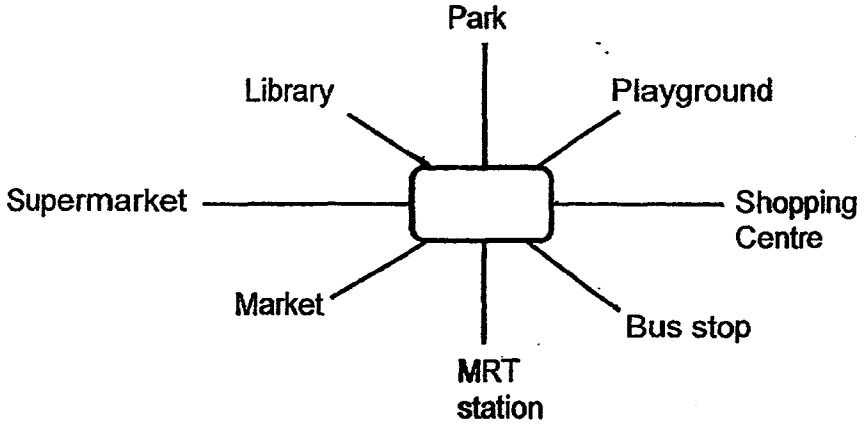
22. $32.9 - 5.83 =$ _____

Answer : _____

23. Express $\frac{3}{4}$ as a decimal.

Answer : _____

24. Kelly is facing the library. If she turns _____ ^{0} clockwise, she will face the shopping centre.



Answer : _____ ^{0}

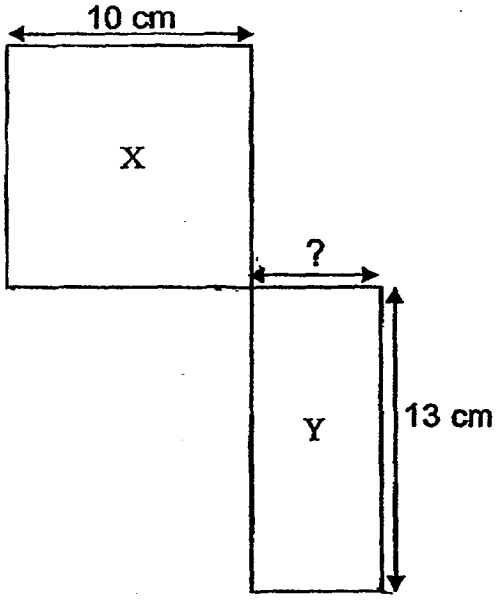
25. I think of a number. It is smaller than 30. It is a multiple of 7. If I add 15 to the number, it will be a multiple of 4 and 9. What is the number?

Answer : _____

26. Round off 18.596 to the nearest hundredth.

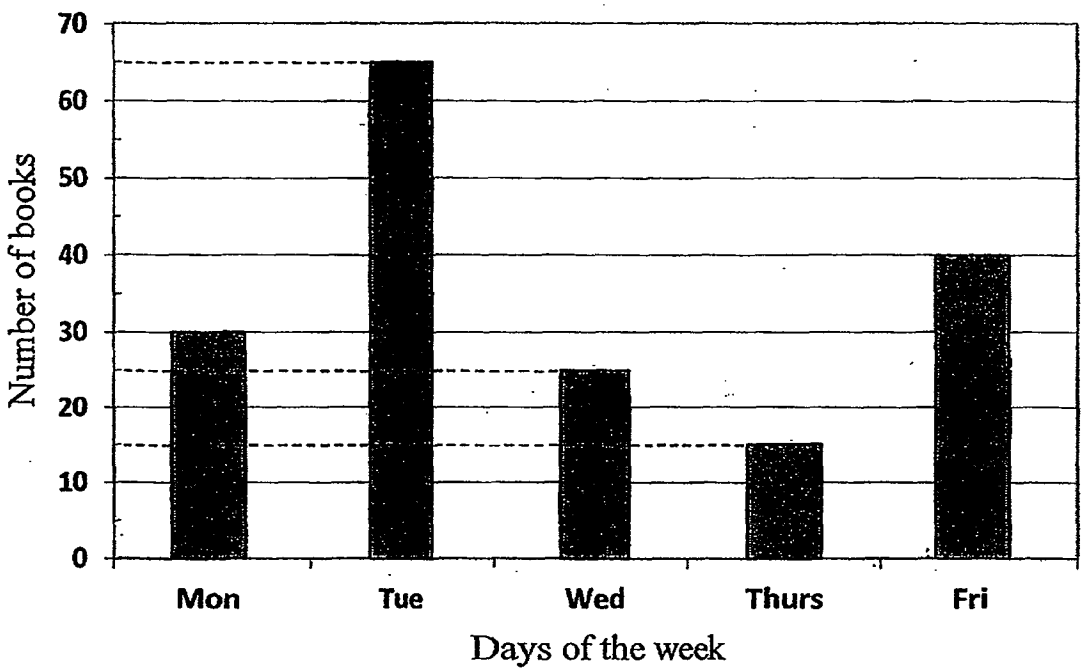
Answer : _____

27. The figure below comprises Square X and Rectangle Y. Both Square X and Rectangle Y have the same perimeter. Find the breadth of Rectangle Y.



Answer : _____ cm

Study the graph below carefully and answer questions 28 and 29. The graph below shows the number of books borrowed by pupils from the library in a week.



28. What is the difference between the number of books on Tuesday and Thursday?

Answer : _____

29. On which day was the number of books borrowed from the library $\frac{5}{8}$ of the number of books borrowed on Friday?

Answer : _____

30. $36.28 = 36 + \frac{7}{\boxed{?}}$

What is the missing number in the box?

Answer : _____

31. The table below shows the starting and ending time of 3 activities.

	Activity A	Activity B	Activity C
Starting Time	10.15 a.m.	10.45 a.m.	10.30 a.m.
Ending Time	12:30 p.m.	1.15 p.m.	12.15 p.m.

Which activity lasts the longest?

Answer : Activity _____

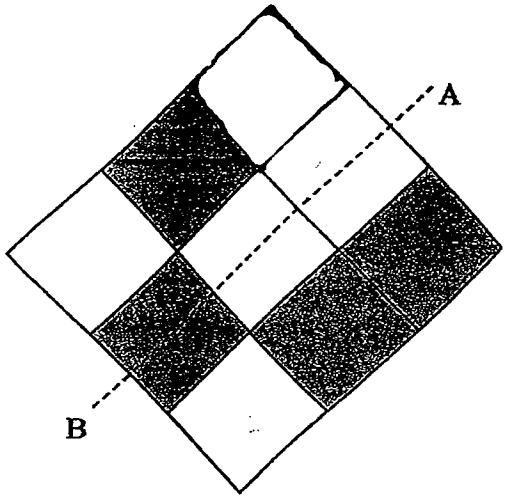
32. Alex is seated in a concert hall. There are 18 seats to his right and 7 seats to his left. There are 5 rows of seats in front of him and 9 rows behind him. All the rows have the same number of seats. How many seats are there in the concert hall?

Answer : _____

33. Shana ended her swimming lesson at 3.15 p.m. If her swimming lesson took 2 hours 25 minutes, what time did she start her swimming lesson?
Express your answer in 24-hour clock format.

Answer : _____

34. In the figure below, the dotted line AB is the line of symmetry.
Shade one more unit square on the grid below to complete the symmetric figure.



35. Find the value of 67.43 x 8.

Answer : _____

SECTION C - Problem Sums (30 Marks)

For each question from 36 to 43, show your working and mathematical statements clearly in the space below each question. Write your answer in the answer space provided. Give your answers in the units stated and in its simplest form whenever possible. Marks awarded are shown in the brackets [ ].

36. A sack contained 14.5 kg of flour. Mr Tan used 9.86 kg and packed the rest equally into 8 bags. What was the mass of flour in each bag?

Answer: _____ [3]

37. There were yellow and green balls in a store. $\frac{3}{8}$ of the balls in the store were yellow. There were 296 more green balls than yellow balls. How many balls were there in the store?

Answer: _____ [4]

38. A pen and an exercise book cost $2.40. 3 pens and 5 exercise books cost $9.80. Find the cost of an exercise book.

Answer: _____ [4]

39. Jason takes 1 hour 40 minutes to assemble his first car model. He took 30 minutes more to assemble his second car model.

a) If he starts assembling his first car model at 11.30 a.m., what time will he complete assembling his first car model?
Draw a timeline to show your working.

b) How long does he take to assemble the second car model?
Leave your answer in hours and minutes.

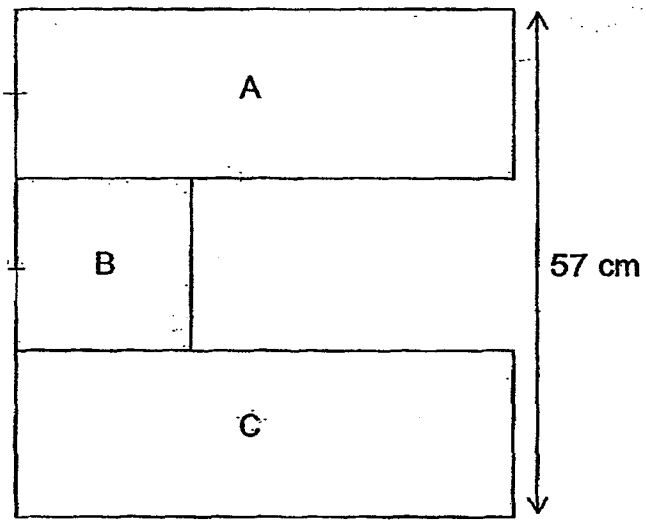
Answer: (a) _____ [2]

(b) _____ [2]

40. Aariz and Zara had 684 paper clips altogether. After Aariz used $\frac{1}{3}$ of his paper clips and Zara used 59 of her paper clips, they had the same number of paper clips left. How many paper clips did Aariz have at first?

Answer: _____ [4]

41. Study the composite figure below. The length of Rectangle A is 3 times the length of Square B. Rectangles A and C are identical. Find the area of the figure.

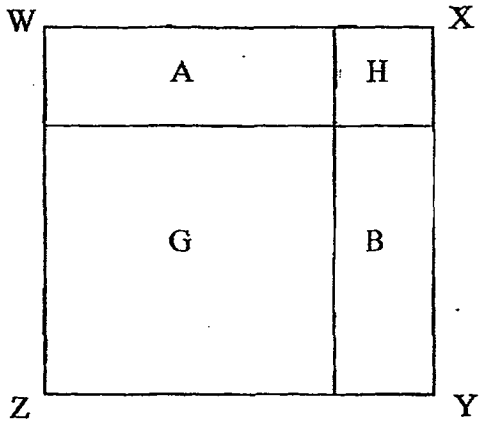


Answer: _____ [4]

42. Kate had some beads and containers. If she placed 45 beads in each container, she had 33 beads left. If she placed 53 beads in each container, she was short of 39 beads. How many containers did Kate have?

Answer: _____ [4]

43. The figure WXYZ below is made up of 2 identical rectangles, A and B and 2 squares, G and H. The perimeter of rectangle A and B is 84 cm each. Find the area of the figure.



Answer:_____ [3]

End-of-Paper

Anglo-Chinese School (Primary)

End-of-Year Examination 2014

Mathematics Primary 4

1) 4

2) 4

3) 3

4) 3

5) 1

6) 1

7) 3

8) 2

9) 4

10) 3

11) 4

12) 3

13) 4

14) 3

15) 3

16) 80

17) 5/12

18) 6000

19) Angle d & Angle b

20) ¼

21) 1.08X3 = 3.24 litres

3.24/8 = 0.405 litres

22) 27.07

23) 0.75

24) 135°

25) 21

26) 18.60

27) 10cm X 4 = 40 cm

(40-13-13) cm = 14 cm

14/2 = 7 cm

28) 65-15 = 50

29) 8u --> 40 books

5u --> ⅝ X 40 = 25 books

Ans: Wednesday

30) 0.28 = 28/100 = 7/25

Ans: 25

31) Activity B (2½h is more than 2¼h, also more than 1¾h)

32) 18+7+1 = 26 columns (including Alex's seat)

5+9+1 = 15 rows (including Alex's seat)

26X15 = 390 seats

33) 3.15pm = 15 15

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 15 15
-  2 25
----------
  12 50
----------
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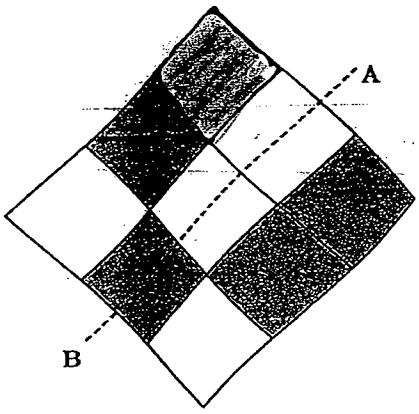
34)

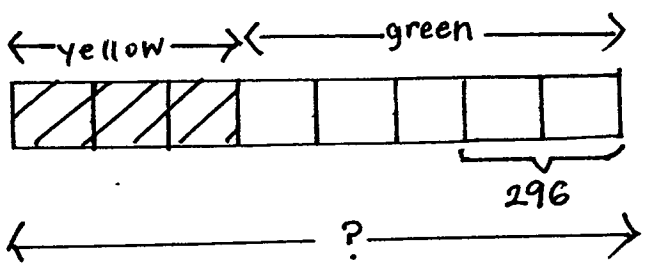


35) 539.44

36) (14.5-9.86) kg = 4.64 kg

4.64kg/8 = 0.58 kg

37)

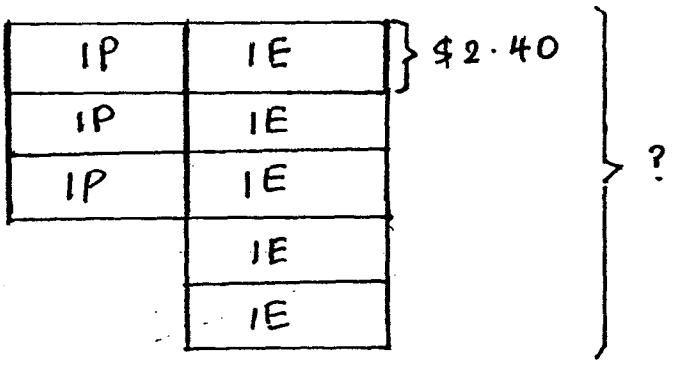


5u-3u = 2u

2u --> 296

8u --> 8/2X296 = 1184 balls

38)



1 pen + 1 exercise book --> $2.40

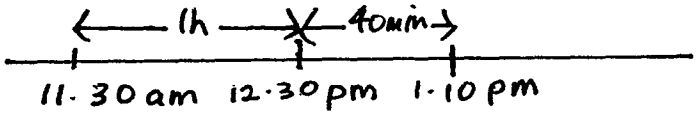
3 pens + 3 exercise books --> $7.20

3 pens + 5 exercise books --> $9.80

Difference: 2 exercise books --> $9.80-$7.20 = $2.60

1 exercise book --> $2.60/2 = $1.30

39)



a) Ans: 1.10 p.m.

b) 1h 40min
+ 30min

2h 10min
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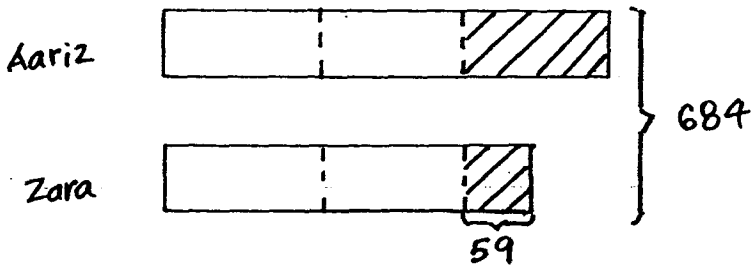
40)



684-59 = 625

625/5 = 125

125X3 = 375 paper clips

41) 57cm/3 = 19 cm

19cmX19cm = 361 cm^2 (Area of Square B)

19cmX3 = 57 cm (Length of Rectangles A & C)

57cmX19cmX2 = 2166 cm^2 (Area of Rectangles A & C)

(2166+361) cm^2 = 2527 cm^2 (Area of the figure)

42) 33+39 = 72 (extra beads)

53-45 = 8 (extra beads in 1 container)

72/8 = 9 containers

43) For Rectangle A & B, 1length + 1breadth = 84/2 = 42 cm (this also forms the length of the figure)

Area of figure = 42cm X 42cm = 1764 cm^2