AI TONG SCHOOL

2014
MID-YEAR EXAMINATION
PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 12 May 2014

INSTRUCTIONS
Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.

Name : _____( )

Class : Primary 4_____

Marks :

Section A	/28
Section B	/40
Section C	/32
Total	/100

Parent's Signature : _____

Date : _____

Section A

Questions 1 to 14 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet with a 2B pencil. **(28 marks)**

---

1 In the number 82 041, what is the place value of the digit 2?

(1) tens

(2) hundreds

(3) thousands

(4) ten thousands

2 Complete the number pattern.

33 625 , _____ , 32 605 , 32 095 , 31 585

(1) 33 115

(2) 33 125

(3) 34 125

(4) 34 135

3 Which of the following is a common factor of 12 and 16?

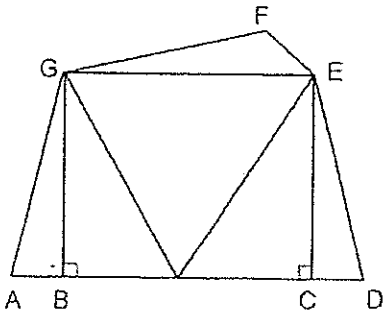
(1) 12

(2) 8

(3) 6

(4) 4

4 In the figure below, which line is parallel to BG?



(1) BC

(2) CE

(3) GF

(4) GE

5 When a number is divided by 7, it has a quotient of 378 and a remainder of 2. What is the number?

(1) 54

(2) 56

(3) 2646

(4) 2648

6 Which one of the following numbers is 4900 when rounded off to the nearest 100?

(1) 4809

(2) 4849

(3) 4940

(4) 4950

7 There were 1245 children at a camp site. Each tent could sleep 6 children. What is the **least** number of tents needed for all the children?

(1) 207

(2) 208

(3) 1239

(4) 7470

8 Express $6\frac{3}{8}$ as an improper fraction.

(1) $\frac{63}{8}$

(2) $\frac{51}{8}$

(3) $\frac{48}{8}$

(4) $\frac{26}{8}$

9 Sally used $\frac{5}{12}$ m of ribbon to tie her hair. She used a second piece which was $\frac{3}{4}$ m longer to decorate a present. How much ribbon did she use in all?

(1) $\frac{3}{4}$ m

(2) $1\frac{1}{6}$ m

(3) $1\frac{7}{12}$ m

(4) $1\frac{11}{12}$ m

10 David had 220 marbles left after giving $\frac{1}{5}$ of his marbles to his brother. How many marbles did he have at first?

(1) 44

(2) 176

(3) 275

(4) 1100

11 There are 24 boys and 16 girls in a class. $\frac{2}{3}$ of the boys and $\frac{1}{4}$ of the girls wear spectacles. How many more boys than girls wear spectacles?

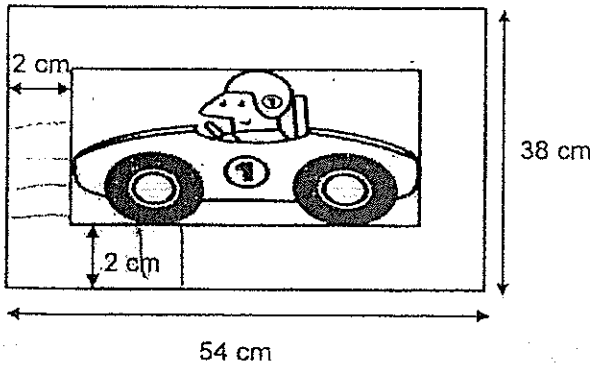
(1) 20

(2) 16

(3) 12

(4) 8

12 A rectangular cardboard measures 54 cm by 38 cm. A picture is mounted on it leaving a 2-cm wide border around the picture. Find the area of the picture.



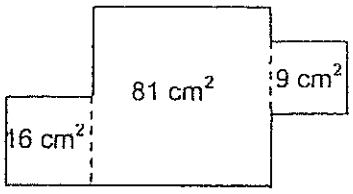
(1) 352 cm²

(2) 1700 cm²

(3) 1872 cm²

(4) 2052 cm²

13 The figure below is made up of 3 squares. A piece of wire is used to construct the outline of the figure. What is the length of wire used?



(1) 50 cm

(2) 57 cm

(3) 64 cm

(4) 106 cm

14 Kelly takes 4 minutes to jog 1 round on the track while Rachel takes 6 minutes to jog 1 round. Both of them started jogging round the track in the same direction and at the same time. How long would it take for them to meet each other for the first time at the starting point?

(1) 6 min

(2) 10 min

(3) 12 min

(4) 24 min

Section B

Questions 15 to 34 carry 2 marks each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

15 What is twenty thousands, one hundred and two ones in figures?

Ans: _____

16 Using the digits below, form the smallest 4-digit odd number.

4	3	7	0

Ans: _____

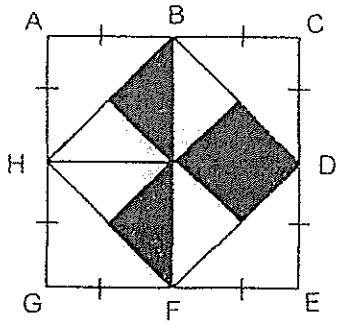
17 What are the first 2 common multiples of 3 and 4?

Ans: _____ and _____

18 What is the product of 63 and 24?

Ans: _____

19 The figure below is made up of a square ACEG. B, D, F and H are midpoints of AC, CE, EG and AG respectively. What fraction of the figure is shaded? (Express your answer in the simplest form.)



Ans: _____

---

20 Bob pays $1266 every 3 months to rent a room. How much does he pay to rent the room for a year?

Ans: $_____

---

21 There are 9 Primary 4 classes in school XYZ. Each class has an equal number of pupils. Mrs Lim packed 792 sweets equally for each class. If every pupil gets 2 sweets, how many pupils are there in each of the Primary 4 class?

Ans: _____

6

22 At a concert, $\frac{5}{7}$ of the audience are adults and the rest are children. If there are 630 people at the concert, how many children are there?

Ans: _____

---

23 Using the given line AB below, construct and label ∠ABC such that ∠ABC = 67°.

---

24 4 years ago, Chloe's father was thrice as old as Chloe. Their total age is 68 years now. How old was Chloe 4 years ago?

Ans: _____ years old

6

25 Mrs Rani mixed $\frac{3}{4}\ell$ of concentrated syrup with some water to make 4 ℓ of drink. How much water did she use? Express your answer in its simplest form.

Ans: _____ ℓ

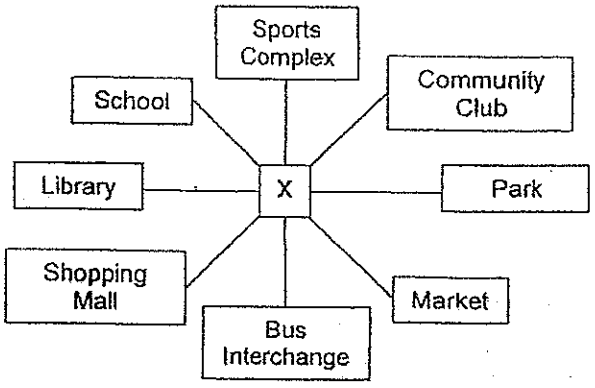
---

26 How many quarters are there in $2\frac{1}{4}$?

Ans: _____

---

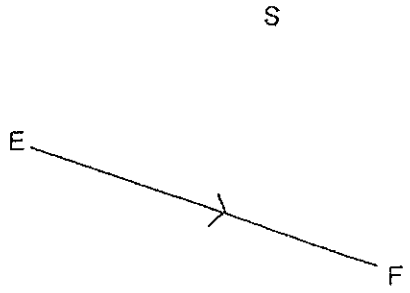
27 Clarice was standing at point "X" as shown in the diagram below. She made a 135° turn in an anti-clockwise direction and ended up facing the Bus Interchange. Where was she facing at first?



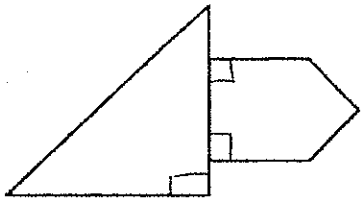
Ans: _____

6

28 In the space below, draw a straight line parallel to the line EF through the point S.

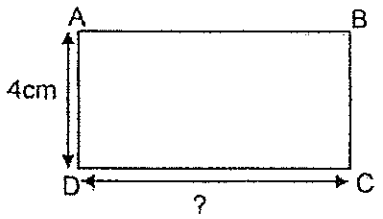


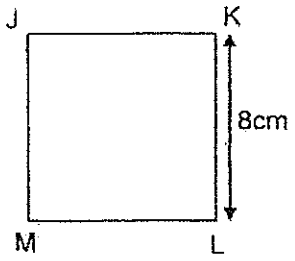
29 How many pairs of perpendicular lines are there in the figure below?



Ans: _____

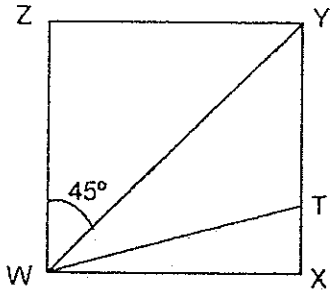
30 The figures below are not drawn to scale. The area of the rectangle ABCD is equal to the area of the square JKLM. Find the length of CD.





Ans: _____ cm

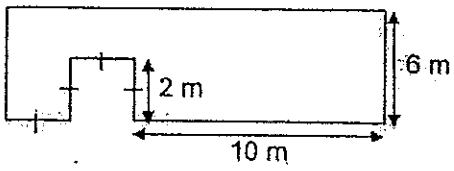
31 The figure below is not drawn to scale. WXYZ is a square. ∠YWZ is 45°. ∠TWY is 17° more than ∠TWX. Find the value of ∠TWX.



Ans: _____ °

---

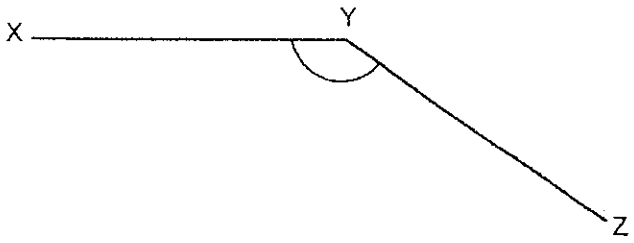
32 The figure below is not drawn to scale. A piece of wire was bent to form the following figure. What was the length of the wire?



Ans: _____ m

4

33 Using a protractor, measure and write down the size of ∠XYZ.



Ans: _____ °

---

34 Ahmad has some stickers. He gave half of the stickers to his brother and collected another 353 stickers. He now has 480 stickers. How many stickers did he have at first?

Ans: _____

4

Section C

Questions 35 to 38 carry 3 marks each. Questions 39 to 43 carry 4 marks each. Show your working clearly in the space provided below each question and write your answers in the spaces provided. (32 marks)

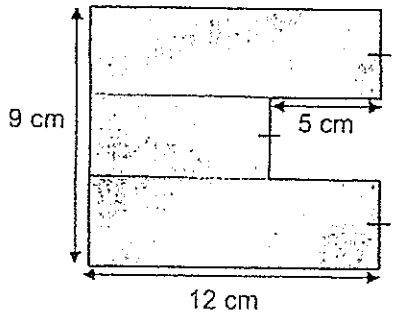
35 The total cost of 3 similar dresses and 1 belt is $200. Each dress cost thrice as much as each belt. How much does a dress cost?

Ans: _____ [3]

36 Mr Goh has between 20 kg and 40 kg of rice in a sack. If he packed them into bags of 4 kg each, he will not have any rice left. If he packed them into bags of 5 kg each, he will have 1 kg of rice left. Find the amount of rice in the sack.

Ans: _____ [3]

37 The figure below is not drawn to scale. All lines meet at right angles. Find the area of the shaded part.



Ans: _____ [3]

---

38 Muffins were sold in packets of 3. Each packet cost $4. Mrs Tan needed 50 muffins for a party. How much would it cost her to buy enough muffins for the party?

Ans: _____ [3]

---

39 Mr Lee has a rectangular plot of land with an area of 98 m^2. The breadth of the land is 7 m. Mr Lee wants to build a wooden fence around the perimeter of the land. The fence costs $40 per meter. How much does Mr Lee need to pay to build the fence?

Ans: _____ [4]

---

40 Maggie baked some cookies. She gave $\frac{1}{4}$ of the cookies to her friends and $\frac{1}{8}$ of them to her relatives. She had 210 cookies left. How many cookies did Maggie bake?

Ans: _____ [4]

---

41 Kate and Louise had a total of $2124 at first. After Kate spent $144 on a camera and Louise earned $200 from selling books during the holidays, both had the same amount of money. How much did Kate have at first?

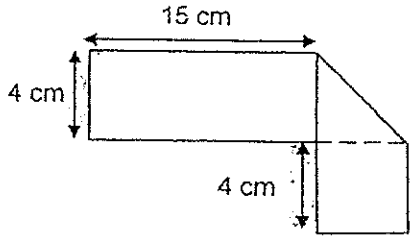
Ans: _____ [4]

---

42 The figure below is not drawn to scale. A rectangular piece of paper is folded to form the shape as shown below.

(a) What is the area of the rectangular piece of paper?

(b) What is the perimeter of the rectangular piece of paper?



Ans: (a) _____ [3]

(b) _____ [1]

8

43 There were 1248 magazines in a bookstore. During a promotion, every customer who bought 2 magazines got an additional magazine for free. After 128 customers bought 2 magazines each, the remaining magazines were packed equally into 9 boxes. How many magazines were there in each box?

Ans: _____ [4]

4

End-of-paper

Please check your work carefully.

Ai Tong School
Primary 4 – Mathematics
Mid Year – 2014
Answer Key

Section A:

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

Section B:

Q15. 20102

Q16. 3047

Q17. 12 & 24

Q18. 1512

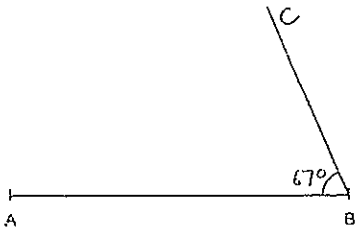
Q19. ¼

Q20. $5064

Q21. 44

Q22. 180

Q23. Construct and label angle ABC such that angle ABC = 67°



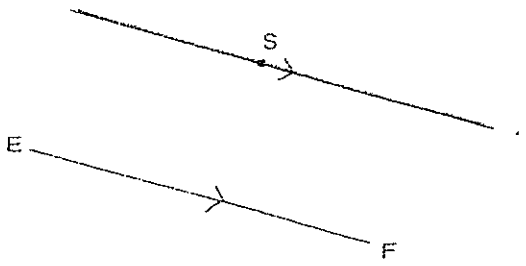
Q24. 15

Q25. 3 ¼

Q26. 9

Q27. School

Q28. Draw a straight line parallel to the line EF through the point S.



Q29. 4

Q30. $8 \times 8 = 64$
$64 \div 4 =$ **16**

Q31. $45 - 17 = 28$
$28 \div 2 =$ **14°**

Q32. $6 + 6 = 12$
$10 + 10 = 20$
$2 \times 4 = 8$
$8 + 14 = 22$
$20 + 12 + 12 =$ **44**

Q33. **145°**

Q34. $480 - 353 - 127$
$127 \times 2 =$ **254**

Section C:

Q35. $220 \div 10 = 22$
$22 \times 3 =$ **66**

Q36. Multiples of 4: 4, 8, 12, 16, 20, 24, 28, 32, **36**
Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40
Mutliples of 5 + 1: 6,11,16,21,26,31,**36**,41
Ans: 36kg

Q37. Area of A: $12 \times 3 = 36$
Area of B: $7 \times 3 = 21$
Area of C: $12 \times 3 = 36$
Total area: 93 cm²

Q38. $50 \div 3 = 16$ remainder 2
So packets - $16 + 1 = 17$
$17 \times 4 = 68$
Ans: $68

Q39. $98 \div 7 = 14$
$14 + 14 = 28$
$28 + 14 = 42$
$42 \times 40 = 1680$
Ans: $1680

Q40. 5 units → 210
1 unit → 42
8 units → $42 \times 8 = 336$
Ans: 336

Q41. 2 units → $2124 - 144 - 200 = 1780$
1 unit = $1780 \div 2 = 890$

$890 + 200 = 1090$
$1090 + 144 = 1234$
Ans: $1234

Q42.

a) $15 + 4 + 4 = 23$
$23 \times 4 = 92$
Ans: 92cm²

b) $23 + 4 = 27$
$27 \times 2 = 54$
Ans: 54cm