Tao Nan School
Primary 5 Mathematics Mid-Year Examination – 2010

Name: _____ ( ) Date : 13 May 2010

Class : Primary 5 ( ) Time : 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks : _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

Questions **1** to **10** carry 1 mark each. Questions **11** 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

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1. In 8 562 307, the value of the digit 5 is _____.

   (1) 500

   (2) 50 000

   (3) 500 000

   (4) 5 000 000

2. In 319.24, the digit _____ is in the hundredths place.

   (1) 1

   (2) 2

   (3) 3

   (4) 4

3. 98.761 = 9876 1 ÷ _____

   (1) 1

   (2) 10

   (3) 100

   (4) 1 000

4. Express 0.27 as a fraction.

   (1) $\frac{2}{7}$

   (2) $\frac{27}{100}$

   (3) $2\frac{7}{10}$

   (4) $2\frac{7}{100}$

5. $4 : 7 = 20 : \square$

(1) 5

(2) 11

(3) 27

(4) 35

6. Joe is facing West. If he turns in an anti-clockwise direction to face North, how many degrees has he turned?

(1) 45 °

(2) 90 °

(3) 180 °

(4) 270 °

7. The value of $48 - (20 + 12) \div 4 \times 2$ is _____.

(1) 8

(2) 20

(3) 32

(4) 34

8. A construction worker is paid $800 for 20 days of work. If he works 10 days, how much will he be paid?

(1) $ 40

(2) $ 160

(3) $ 400

(4) $ 1 600

9. How many one-fifths are there in 5?

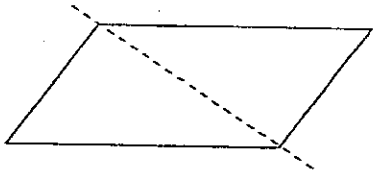
(1) 1

(2) 5

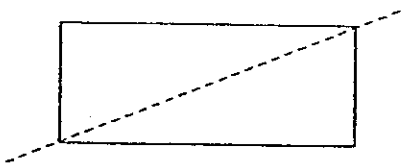
(3) 15

(4) 25

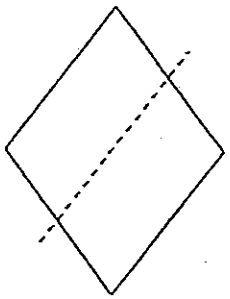
10. Which of the following dotted lines is a line of symmetry of the figure?



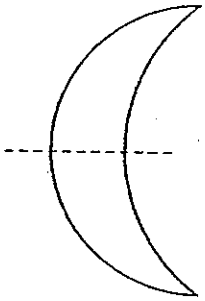
(1)



(2)



(3)



(4)

11. The ratio of Andy's height to his father's height is 5 : 7. If their total height is 3m 24 cm, what is the difference in their heights?

(1) 27 cm

(2) 54 cm

(3) 135 cm

(4) 504 cm

12. Which of the following fractions is greater than $\frac{1}{2}$?

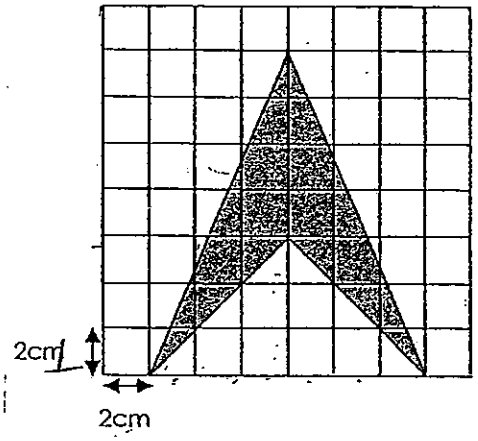
(1) $\frac{3}{8}$

(2) $\frac{18}{37}$

(3) $\frac{42}{83}$

(4) $\frac{95}{190}$

13. The area of the shaded part is _____.



(1) 21 cm^2

(2) 48 cm^2

(3) 84 cm^2

(4) 96 cm^2

14. After rounding off to the nearest tens, Amy and Betty have a total of 210 beads. If Amy has 118 beads, what is the minimum number of beads Betty has?

(1) 82

(2) 87

(3) 90

(4) 92

15. Seven hockey teams participated in the Youth Olympic Games (YOG). If each team played one match against each of the rest, how many matches were played altogether?

(1) 6

(2) 21

(3) 36

(4) 42

End-of-Booklet A

Name: _____( )

Class : Primary 5 ( )

Parent's Signature : _____

20

MATHEMATICS

PAPER 1

(BOOKLET B)

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

Questions **16** to **25** carry 1 mark each. 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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16. Write six million, one hundred and one thousand and forty-nine in numerals.

Ans: _____

17. Form the **smallest** 5–digit **odd** number with the digits 3, 1, 7, 4 and 8.

Ans: _____

18. Complete the following number pattern.

750 800, 650 600, 550 400, _____

Ans: _____

19. Find the value of 25 x 403.

Ans: _____

20. When a number is divided by 10, the quotient is 86 and the remainder is 8. What is the number?

Ans: _____

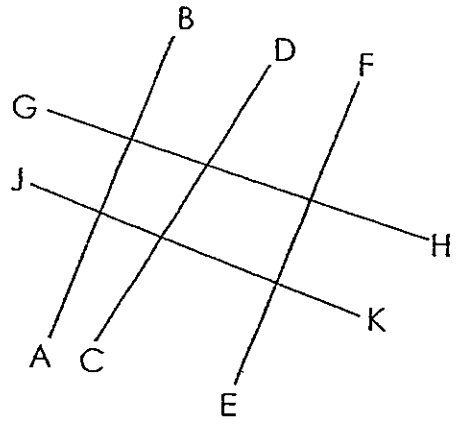
21. Find the value of $\frac{2}{5} \div 5$.

Ans: _____

22. Express $1\frac{3}{7}$ as a decimal correct to 2 decimal places.

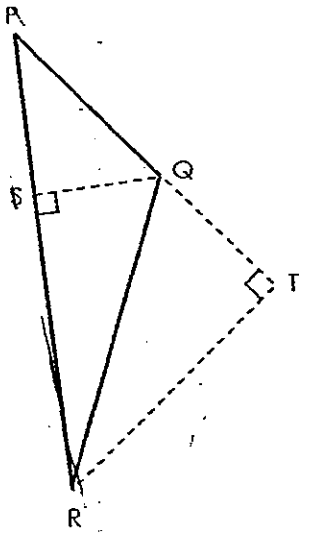
Ans: _____

23. In the diagram below, which line is parallel to AB?



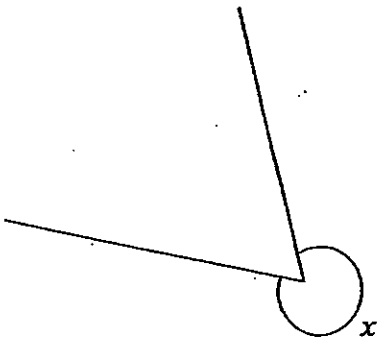
Ans: _____

24. If PR is the base of the triangle PQR, which line is the height of the triangle?



Ans: _____

25. Find $\angle x$ using a protractor.



Ans: _____°

Questions **26** to **30** carry 2 marks each. Show your working clearly in the space provided for each question 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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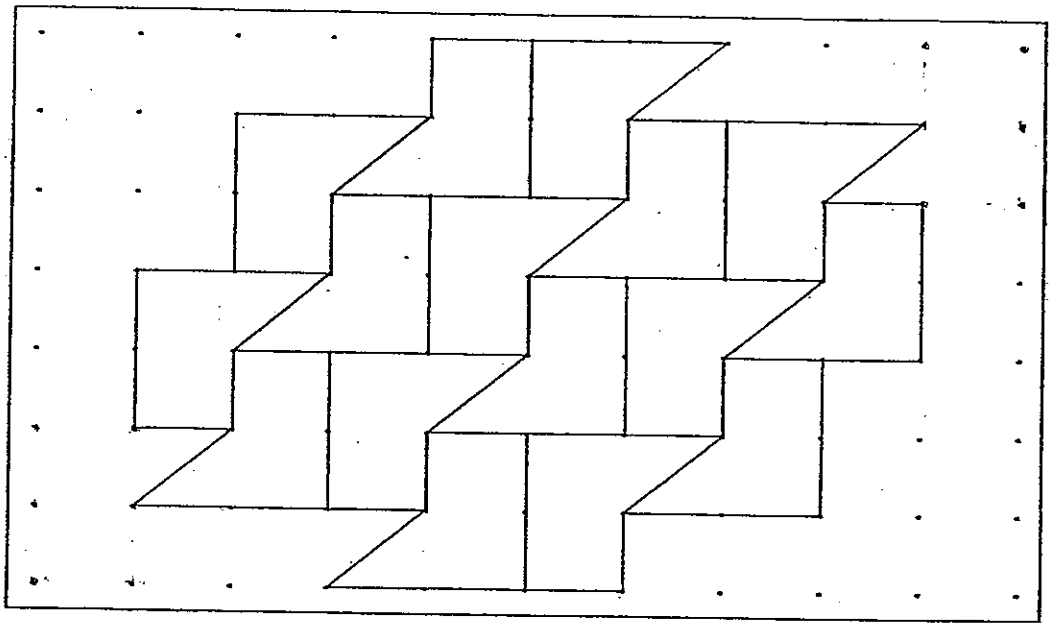
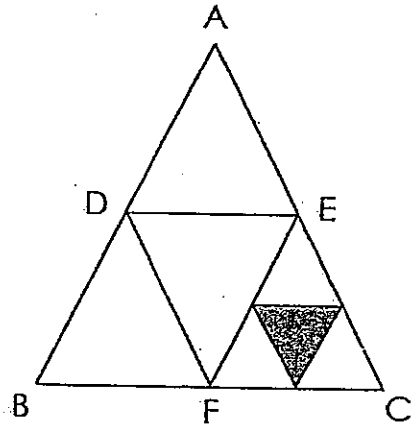
26. Complete the following tessellation in the space provided by adding **2** more unit shapes.



27. ABC is an equilateral triangle. D, E and F are mid-points of sides AB, AC and BC respectively. What fraction of the triangle is shaded?



Ans: _____

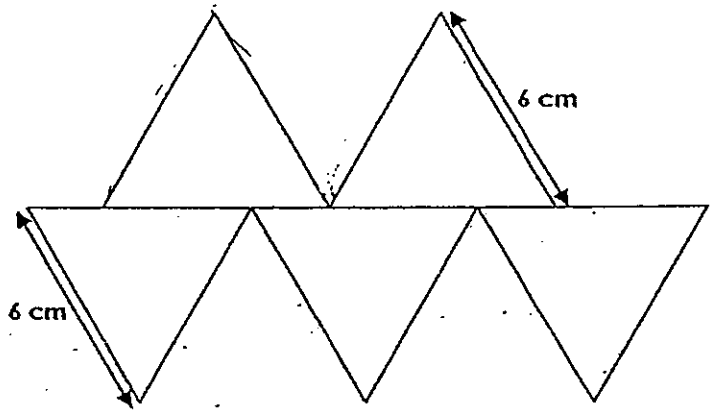
28. Roses are sold in stalks of 3 for $8. What is the maximum number of stalks Ying Hui can buy if she has $58?

Ans: _____

29. The difference between two numbers is 157 and the sum of the numbers is 179. What is the smaller number?

Ans: _____

30. The figure is made up of 5 identical equilateral triangles each of side 6cm. Find the perimeter of the figure.



Ans: _____ cm

END OF PAPER

Tao Nan School
Primary 5 Mathematics Mid-Year Examination – 2010

Name: _____ ( ) Date : 13 May 2010

Class : Primary 5 ( ) Time : 10.00 a.m. - 11.40 a.m.

Parent's Signature : _____ Marks : _____ / 60

MATHEMATICS

PAPER 2

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and Index No.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question 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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1. Chee Keong spent $\frac{2}{5}$ of his money on new clothes and $\frac{1}{3}$ of the remainder on food. What fraction of his money was spent on food?

Ans: _____

2. How many right angles will the minute hand move from 9.15 a.m. to 1.30 p.m.?

Ans: _____

3. Mrs Chee goes to the market every 2 days. Mdm Lim goes to the same market every 3 days. They were both at the market on 1 April. When will they meet again at the market?

Ans: _____

4. There are 18 males and 27 females in a cinema. What is the ratio of the number of males to the total number of people in the cinema? Express your answer in the simplest form.

Ans: _____

5. Gary ate $\frac{5}{8}$ of his pizza and had 90 g of pizza left. What is the mass of the pizza?

Ans: _____ g

For questions **6** to **18**, show your working clearly in the space provided for each 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. (50 marks)

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6. 4 similar tables cost $360 more than 14 similar chairs. If the 4 tables cost $920, what is the cost of 28 such chairs?

Ans: _____[3]

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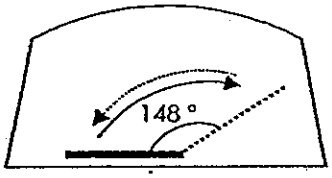
7. A car wiper swings to and fro in 1 second. How many degrees will the wiper swing in 12 seconds?



Windscreen

Ans: _____[3]

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8. Limin earned twice as much money as Ahmad each day. Muthu earned $245 less than Limin. They earned $1 505 altogether. How much money did Ahmad earn each day?

Ans: _____ [3]

9. Ken and Jim went to a bookshop with the same amount of money. Ken bought a storybook for $24.90 and Jim spent $15.70 on stationery. Jim had 3 times as much money left as Ken. How much money did Ken have at first?

Ans: _____ [3]

10. A thin wire, 132 cm long, is bent to form Figure A below which consists of a square and a rectangle. If the wire does not overlap and the breadth of the rectangle is one third its length, what is the perimeter of the figure?

Figure A

Ans: _____[3]

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11. Indra bought a packet of sweets. He ate the same number of sweets every day. After 5 days, he had $\frac{5}{6}$ of the packet of sweets left. After another 5 days, he had 80 sweets left. How many sweets were there in the packet at first?

Ans: _____[3]

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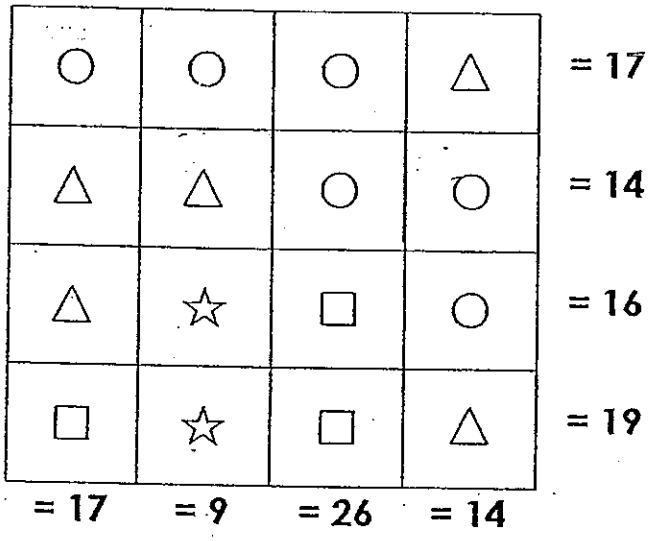
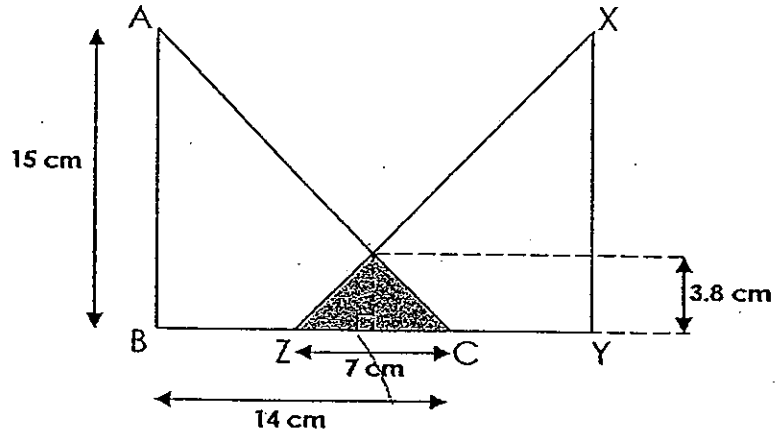
12. The different shapes represent different values in the puzzle below. Each number on the right shows the total value of each row. Each number below the puzzle shows the total value of each column. Find the value of a □ ?



Ans: _____[4]

13. Two identical triangles, ABC and XYZ, overlap each other as shown in the figure. Given that AB = XY = 15 cm and BC = YZ = 14 cm, what is the area of the figure that is not shaded?



Ans: _____ [4]

14. Mr Sim bought a tin of cookies and shared the cookies equally among 60 pupils. 18 of these pupils did not want the cookies and gave their cookies to the rest of the pupils. As a result, the rest of the pupils received 6 more cookies each. How many cookies were there in the tin at first?

Ans: _____ [4]

15. This year, David's age is $\frac{2}{7}$ that of his father's. In 14 years' time, his father will be 70 years old. In how many years' time will David's father be 3 times as old as him?

Ans: _____ [5]

16. Farmer Tan has ducks and cows on his farm. The total number of ducks and cows is between 20 and 40. The ratio of the total number of ducks' legs to the total number of cows' legs is 5 : 9. What is the total number of ducks and cows on the farm?

Ans: _____ [5]

17. $\frac{2}{9}$ of the beads in a container are black. There are 65 more red beads than black ones in the container. The remaining 45 beads are white. How many red beads are there in the container?

Ans: _____ [5]

18. Mdm Lek had 57 apples and oranges altogether. There were 3 fewer oranges than apples. She gave away half as many oranges as apples to her neighbours. She was left with twice as many oranges as apples. How many apples did she give away?

Ans: _____ [5]

END OF PAPER

ANSWER SHEET

EXAM PAPER 2010

SCHOOL : TAO NAN PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

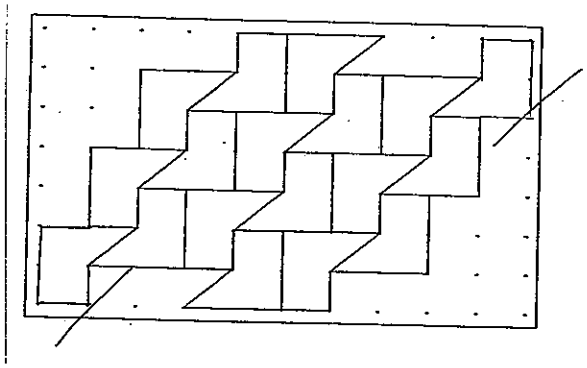
TERM : SA1

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

16) 6101049 17) 13487 18) 450200 19) 10075 20) 868 21) 2/25

22) 1.43 23) FE 24) QS 25) 295

26)



27) 1/16 28)21 29) 11 30) 66

Paper 2

1) 1/5 2) 17 3) 7 April 4) 2:5 5) 240g

6) $920-$360 = $560 $560 / 14 = $40 $40 x 28 = $ 1120 The cost is $1120	7) 148^0 x 2 = 296^0 295^0 x 12 = 3552^0 The wiper will swing 3552^0 in 12 seconds.
8) $1505 + $245 = $1750 $1750 / 5 = $350 Ahmad earned $350 each day.	9) $24.90 - $15.70 = $9.20 $9.20 / 2 = $4.60 $4.60 + $24.90 = $29.50 Ken has $29.50 at first.
10) (3x2) + (1 x 5) = 11 132 / 11 = 12 132 – 12 = 120 The perimeter is 120 cm.	11) 6/6 – 2/6 = 4/6 80 / 4 = 20 20 x 6 =120 There were 120 sweets in the packet at first.
12) 17-14=3 5+5+5+2= 17 5+5+2+2=14 5+2+2=9 17-9=8 The value of the square is 8.	13) 15 x 14 x ½ = 105 105 x 2 = 310 3.8 x 7 x ½ = 13.3 105 – 13.3 =91.7 91.7 x 2 =183.4 The area is 183.4cm^2.
14) 60- 18=42 42 x 6=252 252 / 18 = 14 14 x 60 = 840 There were 840 cookies in the tin at first.	15) 70-14=56 2/7 x 56 =16 56 – 16 =40 40/2 =20 20 x 3 = 60 60 – 56 = 4 David's father will be 3 times as old as David in 4 years time.

16)
5:9 = 10:18
10 x 2 = 20
20+18 = 38
20 x 2 = 40
18 x 4 = 72
40 / 5 = 8
8 x 9 =72
40 /2 =20
72/4 =18
20 + 18 = 38

There are 38 ducks and cows on the farm.

17)
65 +45 = 110
110/5 = 22
22 x 2 =44
44 +65 = 109

There are 109 red beads in a container.

18)
57 – 3 = 54
54 / 2 = 27
27 +3 = 30

Gave away 22 apples and 11 oranges, left with 30-22 = 8 apples and 27-11=16 oranges.

She gave away 22 apples.