Tao Nan School
Primary 5 Mathematics Mid-Year Examination – 2007

Name : _____ ( )

Date : 11 May 2007

Class : Primary 5 ( )

Time : 7.45 -10.00 a.m.

Parent's Signature : _____

Marks : _____ / 100

SECTION A (20 marks)

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 correct oval on the Optical Answer Sheet.

(1) In the numeral 289 765, the digit 9 is in the _____ place.

(1) tens
(2) hundreds
(3) thousands
(4) ten thousands

(2) How many tens are there in 130 000?

(1) 13
(2) 130
(3) 1300
(4) 13 000

(3) What is the quotient when 1256 is divided by 6?

(1) 2
(2) 29
(3) 209
(4) 2092

(4)   Express $7\frac{5}{8}$ as an **improper** fraction.

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

(2) $\frac{59}{8}$

(3) $\frac{61}{8}$

(4) $\frac{75}{8}$

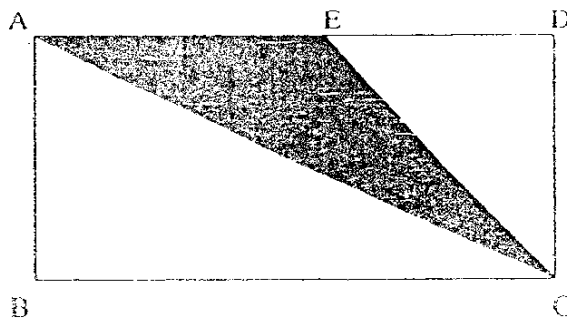(5) $7 : 9 = \boxed{} : 72$. The missing number in the box is _____.

(1) 16
(2) 56
(3) 64
(4) 79

(6)   ABCD is a rectangle. Find the base and height of triangle ACE.

(1) base AC, height AE
(2) base AC, height AB
(3) base AE, height CD
(4) base AE, height CE

(7) Which of the following is a common factor of 14 and 21?

(1) 6
(2) 2
(3) 3
(4) 7

(8) Find the product of 954 and 80.

(1) 7 232
(2) 7 632
(3) 72 320
(4) 76 320

(9) The value of 6 x 12 is the same as 12 + 12 + [   ] . The missing number in the box is _____.

(1) 36
(2) 48
(3) 60
(4) 72

(10) The smallest fraction below is _____.

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

(2) $\frac{3}{4}$

(3) $\frac{5}{6}$

(4) $\frac{7}{12}$

3

(11) Round off 98 951 to the nearest hundred. The answer is _____.

(1) 98 000
(2) 99 000
(3) 98 900
(4) 99 900

(12) In a class, there are 12 boys and 28 girls. What fraction of the pupils are girls?

(1) $\frac{2}{5}$

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

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

(4) $\frac{7}{10}$

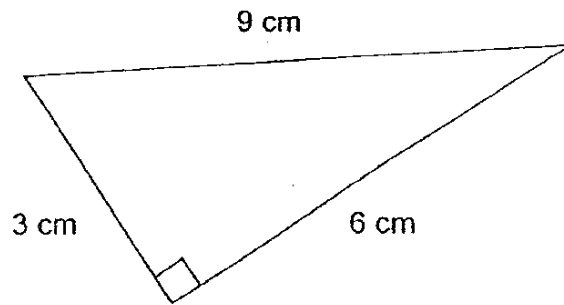(13) Express 36 seconds as a fraction of 1 minute.

(1) $\frac{1}{36}$

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

(3) $\frac{9}{25}$

(4) $\frac{13}{20}$

4

(14)   The figure below is not drawn to scale. Find the area of the triangle.

(1) 9 cm²

(2) 13.5 cm²

(3) 18 cm²

(4) 27 cm²

(15)   For every 3 pencils that Chloe buys, she gets 2 free. What is the least number of pencils she has to buy in order to get a total of 40 pencils?

(1) 12
(2) 24
(3) 34
(4) 35

Name: _____   _____.   Class: Primary 5 (I)

SECTION B (30 marks)

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.

(16)   Four million, four hundred and four written as a numeral is _____.

Ans: _____

(17)   Form the smallest 5-digit odd number from the digits given below.

| 8 | 1 | 7 | 4 | 5 |

Ans: _____

(18)   The length of a rectangle is 7cm longer than its breadth. Find the perimeter of the rectangle if its length is 19cm.

19

_____

_____

_____

_____

Ans: _____ _____cm   7

- 6 -

(19) The product of two numbers is 3 128. If one of the numbers is 46, find the other number.

Ans. _____

(20) A television cost 4 times as much as a radio. If the radio cost $267 less than the television, find the cost of the television.
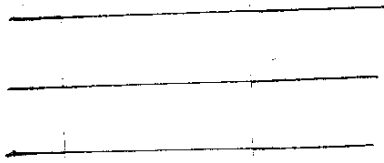
Ans: $_____ _____

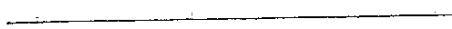(21) What is the value of $\frac{3}{4}$ of $\frac{8}{9}$? (Give your answer in the simplest form.)

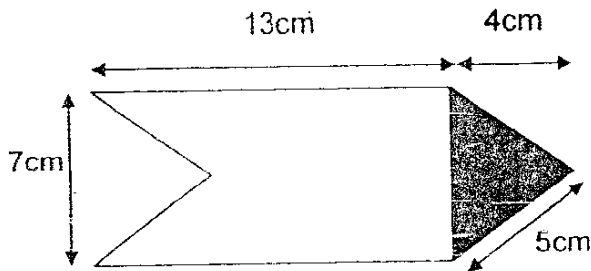8

Ans: _____

- 7 -

(22)   How many centimetres are there in $5\frac{2}{5}$ m?

_____

_____

_____

Ans: _____ cm

(23)   The figure below is not drawn to scale. Find the area of the shaded triangle.

Ans: _____ cm²

- 8 -

(24) The ratio of the number of men to the number of women to the number of children is 3 : 8 : 7. If there are 304 women, how many people are there in all?

Ans: _____

(25) Aaron, Ben and Charlton shared a pizza in the ratio 1 : 2 : 4. What fraction of the pizza did Ben get?

Ans: _____

Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(26)   Round off the product of 29 and 180 to the nearest hundred.

Ans: _____ _____

(27)   The value of (69 – 54 + 6) – 8 x 7 is _____.

Ans: _____

(28) What is the maximum number of rectangles each measuring 6cm by 4cm, that can be cut from a rectangular metal sheet, 24cm by 10cm?

Ans: _____ _____

(29) A packet of flour weighs $1\frac{1}{8}$ kg. A bag of sugar weighs $3\frac{1}{4}$ kg more. What is the total weight of the flour and sugar? (Give your answer in the simplest form.)
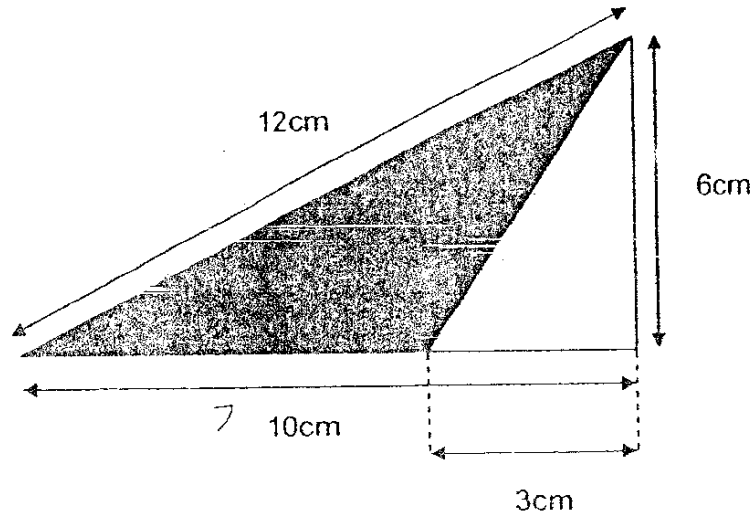
Ans: _____ kg

- 11 -

(30) Izen took $\frac{5}{6}$ hour to jog around a track. Jamie took $\frac{2}{5}$ of the time taken by Izen. How much longer did Izen take than Jamie to jog around the track? (Give your answer as a fraction in the simplest form.)

Ans: _____

(31) Find the area of the shaded triangle.

12cm

6cm

7 10cm

3cm

Ans: _____

(32) Victoria bought 12 scarves for $360 and 4 ribbons for $72. Find the ratio of the cost of each scarf to the cost of each ribbon.

Ans: _____

(33) The sides of a triangle are in the ratio of 3 : 4 : 5. If its perimeter is 96cm, what is the length of its shortest side?

Ans: _____ _____cm

14

(34)   Iman and Erin each saved $3 000. Iman took 16 months less than Erin to save that amount. If Erin saved $75 per month, how much did Iman save in a month?

Ans: $_____

(35)   Faridah sold $\frac{1}{3}$ of her curry puffs and gave away $\frac{1}{4}$ of them to her neighbours. She had 65 curry puffs left. How many curry puffs did she have at first?

Ans: _____

15

Parent's Signature
Date:

Name: _____ _____ ( )   Class: Primary 5 ( )

SECTION C (50 marks)
For questions 36 to 48, show your working clearly in the space below each question and write your answers in the spaces provided.
The number of marks available is shown in the brackets ( ) at the end of each question or part-question.

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(36)   8 years ago, Vienna was 3 years old. In 5 years' time, her cousin will be twice as old as her. How old is her cousin in 5 years' time?

Ans:

(37)   Chester bought 10 identical rings and 4 identical bracelets for $860. If each bracelet cost $40 more than each ring, find the cost of a ring.

Ans:

15

(38) Charlene had 4800 Christmas cards. She sold 750 of them. Then, she packed the rest equally into packets of 13 each. How many Christmas cards were left unpacked?

Ans: _____ (3m)

(39) Joed has 56 beads. Amanda has 16 fewer beads than Joed. Lynn has 4 more beads than Amanda. Find the ratio of the number of beads Lynn has to the number of beads Joed has to the number of beads Amanda has.

Ans: _____ (3m)

- 16 -

(40) The ratio of the number of teachers to the number of pupils in a school is 2 : 55. If there are 1219 more pupils than teachers, how many pupils are there in the school?

Ans: _____ (3m)

(41) Ali, Baba and Kassim had some fruits in the ratio 9 : 4 : 5. Ali gave Baba and Kassim a total of 69 fruits so that all of them had the same number of fruits. Find the total number of fruits the boys had.
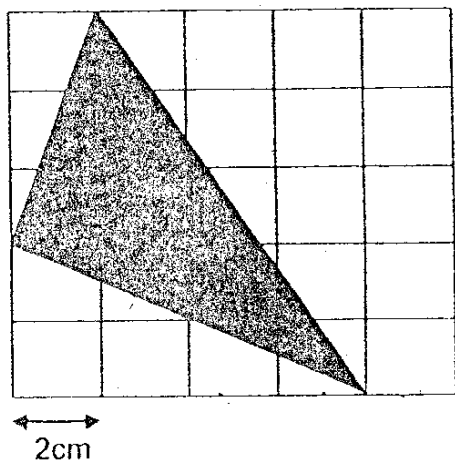
Ans: _____ (3m)

(42) There are a total of 45 chickens and cows in a farm. There are 114 legs altogether. How many more chickens than cows are there?

(4m)

(43) Bryan bought a bag of beans. $\frac{1}{3}$ of them were red beans, $\frac{3}{5}$ of the remainder were black beans and the rest were green beans. If there were 52 green beans, how many black beans were there?

18

(44) Find the area of the shaded triangle.

2cm

Ans :

21

(45) Mr and Mrs Yang brought their 3 children to a concert. The total cost of the concert tickets was $150. A child's ticket cost $\frac{3}{8}$ as much as an adult's ticket. Find the cost of an adult's ticket.

Ans: _____ (5m)

(46) The ratio of the number of storybooks Clara had to the number of storybooks Sarah had was 3 : 7. Sarah had 48 storybooks more than Clara. She gave Clara some storybooks and the ratio became 5 : 7. How many storybooks did Clara receive from Sarah ?

Ans :

23

(47)   Colin wants to buy some watches. The cost of each watch is the same. If he buys 45 watches, he would have $400 left. If he buys 65 watches, he would be short of $60.

a) How much does each watch cost?
b) How much money does he have?

24

Ans: a) _____ ( )

b) _____ (2m)

(48) Gayle bought 30 mugs and keychains altogether. She was given a discount of $3 per mug and 50 cents per keychain. If she paid $60 less in all, how many more mugs than keychains did she buy in all?

Ans: _____ (5m)

25

- End Of Paper -

Tao Nan Primary School

Primary 5 Maths SA1 Exam (2007)

Answer Keys

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

16. 4000404

17. 14587

18. 62cm

19. 68

20. $356

21. $\dfrac{2}{3}$

22. 540cm

23. 14cm²

24. 684

25. $\dfrac{2}{7}$

26. 5200

27. 4

28. 10

29. $5\dfrac{1}{2}$

30. $\dfrac{1}{2}$

31. $10 - 3 = 7$

$$\frac{1}{2} \times 7 \times 6 = 21$$

The area of the shaded $\triangle$ is 21cm²

32. $72 \div 4 = 18$

$360 \div 12 = 30$

$30 : 18$

$5 : 3$

The ratio is 5 : 3

33. $96 \div 12 = 8$

$8 \times 3 = 24$

The length of its shortest side is 24cm

34. $3000 \div 75 = 40$

$40 - 16 = 24$

$3000 \div 24 = 125$

He saved $125 in a month.

35. $$\frac{12}{12} - \frac{4}{12} - \frac{3}{12} = \frac{5}{12}$$

$65 \div 5 = 13$

$13 \times 12 = 156$

She had 156 curry puffs at first.

36. $3 + 8 = 11$

$11 + 5 = 16$

$16 \times 2 = 32$

Her cousin will be 32 years old.

37. $40 \times 4 = 160$

$860 - 160 = 700$

$10 + 4 = 14$

$700 \div 14 = 50$

The cost of a ring is $50.

38. $800 - 50 = 4050$
$4050 \div 13 = 311 \ r7$
7 Christmas cards were left unpacked.

39. $56 - 16 = 40$
$40 + 4 = 44$
$44 : 56 : 40$
$11 : 14 : 10$
The ratio is $11 : 14 : 10$

40. $55 - 2 = 53$
$1219 \div 53 = 23$
$23 \times 55 = 1265$
There are 1265 pupils in the school.

41. $69 \div 3 = 23$
$23 \times 18 = 414$
The total number of fruits the boys had is 414.

42. 21

43. $52 \div 4 = 13$
$6 \times 13 = 78$
There were 78 black beans.

44. $\frac{1}{2} \times 2 \times 6 = 6$

$\frac{1}{2} \times 4 \times 8 = 16$

$\frac{1}{2} \times 6 \times 10 = 30$

$30 + 16 + 6 = 52$
$80 - 52 = 28cm^2$
The area is $28cm^2$

45. $150 \div 25 = 6$
$6 \times 8 = 48$
The cost of an adult's ticket is $48.

46. She received 14 storybooks.

47a. 65 − 45 = 20
400 ÷ 6 = 23
460 ÷ 20 = 23
Each watch costs $23.

47b. 23 x 45 = 1435
1035 + 400 = 1435
He has $1435 left.

48. She bought 6 more mugs than keychains.