



NANYANG PRIMARY SCHOOL

FIRST SEMESTRAL EXAMINATION
2013

PRIMARY 5

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40

Name: _____ ()

Class: Primary 5 ()

Date: 16 May 2013

Parent's Signature: _____

Any query on marks awarded should be raised by **22 May 2013**. We seek your understanding in this matter as any delay in the confirmation of marks will lead to delays in the generation of results

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.
YOU ARE **NOT** ALLOWED TO USE A CALCULATOR.

PAPER 1 (BOOKLET A)

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)

1 Nine million, eighty-nine thousand and eighty-nine when written in numeral is _____.

(1) 9 890 089

(2) 9 809 089

(3) 9 089 890

(4) 9 089 089

2 What is the value of $386 - (12 + 4 \times 8)$?

(1) 128

(2) 258

(3) 342

(4) 406

3 Which one of the following fractions is equivalent to $\frac{6}{15}$?

(1) $\frac{3}{15}$

(2) $\frac{3}{12}$

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

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

4 Arrange the following fractions in ascending order:

$$\frac{2}{3}, \frac{9}{10}, \frac{3}{5}$$

(1) $\frac{9}{10}, \frac{3}{5}, \frac{2}{3}$

(2) $\frac{9}{10}, \frac{2}{3}, \frac{3}{5}$

(3) $\frac{2}{3}, \frac{3}{5}, \frac{9}{10}$

(4) $\frac{3}{5}, \frac{2}{3}, \frac{9}{10}$

5 Which one of the following decimals has the same value as $\frac{3}{200}$?

(1) 0.015

(2) 0.150

(3) 0.003

(4) 0.300

6 Find the value of $\frac{3}{4} + \frac{1}{6}$

(1) $\frac{3}{24}$

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

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

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

7 Find the value of $\frac{3}{7} \times 12$.

(1) $\frac{3}{84}$

(2) $\frac{36}{84}$

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

(4) $\frac{36}{7}$

8 What is the missing number in the box below?

$$35.426 = 35 + 3 \times 0.1 + \boxed{} \times 0.01 + 6 \times 0.001$$

(1) 0.12

(2) 0.42

(3) 12

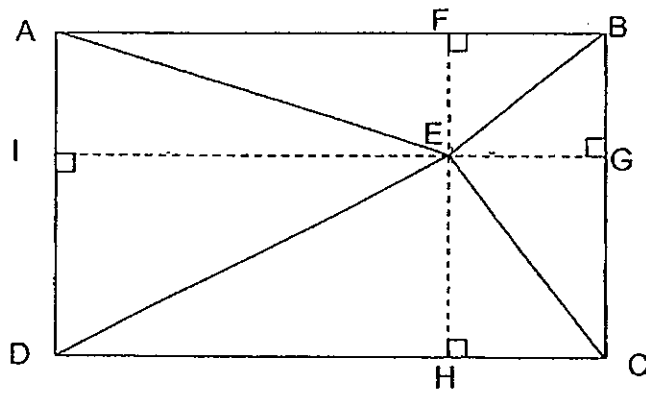
(4) 39

9 What is the missing number in the box below?

$$2.845 = 2 + \frac{4}{5} + \frac{\square}{200}$$

- (1) 5
- (2) 8
- (3) 9
- (4) 45

10 ABCD is a rectangle. What is the height of Triangle ADE, given its base is AD?



- (1) AB
- (2) AF
- (3) BC
- (4) EF

11 John has \$29 000. The sum is made up of twenty \$50-notes and some \$100-notes. How many \$100-notes does he have?

(1) 190

(2) 280

(3) 289

(4) 300

12 How much longer is the total length of String A and String C than String B?

String	A	B	C
Length	3.06 cm	8.34 cm	6.2 cm

(1) 0.92

(2) 1.28

(3) 1.46

(4) 5.20

- 13 The length of a rectangle is twice its breadth and the perimeter is $\frac{6}{7}$ m.
What is the area of the rectangle?

(1) $\frac{2}{49}$ m²

(2) $\frac{1}{7}$ m²

(3) $\frac{8}{49}$ m²

(4) $\frac{2}{7}$ m²

- 14 Sally's mother bought a 2-kg cake. She cut $\frac{1}{5}$ of it for Sally to share with her two sisters. How much cake did each girl get?

(1) $\frac{1}{15}$ kg

(2) $\frac{2}{15}$ kg

(3) $\frac{1}{5}$ kg

(4) $\frac{3}{5}$ kg

15 The diagrams below show the first three figures of a pattern.



Figure 1

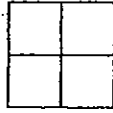


Figure 2

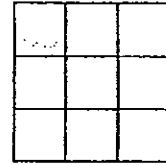


Figure 3

The table below shows the figure number and the total number of squares used to form each figure:

Figure	Number of squares used
1	1
2	4
3	9
...	...
8	?

What is the missing number in the table?

- (1) 14
- (2) 32
- (3) 49
- (4) 64

Name: _____ () Class: Pr 5 ()

P5 SA1 2013

PAPER 1 (BOOKLET B)

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)

16 Round off 419 551 to the nearest thousand.

Ans: _____

17 What is the product of 807 and 16?

Ans: _____

18 What is the missing number in the box below?

$$309\,000 \div 30 = 10 \times \boxed{}$$

Ans: _____

19 What is the missing number in the box?

$$\frac{7}{8} \times \frac{16}{21} = \frac{\boxed{?}}{3}$$

Ans: _____

20 Find the value of $\frac{6}{7} \div 18$.

Ans: _____

21 Find the value of $72.08 \div 4$.

Ans: _____

Express 84 g in kg. Leave your answer as a decimal.

Ans: _____ kg

23 Find the value of $93.4 \div 10$. Round off your answer to 1 decimal place.

Ans: _____

- 24 Ranel had a tank filled with water to its brim. The tank had a capacity of $4\frac{3}{4}$ l. He poured $1\frac{2}{3}$ l of water out from the tank. How much water was left in the tank?

Ans: _____ l

- 25 Insert a pair of brackets, (), in the number statement below to make it a correct number statement.

$$10 + 20 \div 6 - 2 \times 3 = 25$$

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. Marks will be awarded for the relevant number sentences. For questions which require units, give your answers in the units stated.

(10 marks)

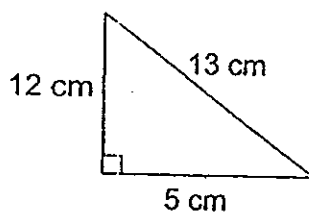
26 Find the value of $72 - (4 + 32 \div 2 \times 3) \div 2$.

Ans: _____

27 Mr Lim mixed 2.49 kg of red beans and 1.305 kg of green beans in a bag. He packed 200 such bags. How many kilograms of beans did he use?

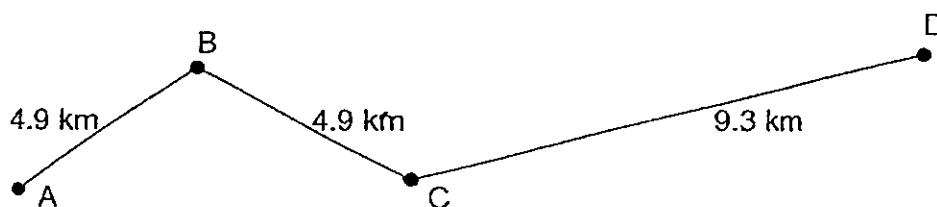
Ans: _____ kg

28 Given that the dimensions of a right-angled triangle are 5 cm, 12 cm and 13 cm, find the area of this triangle.



Ans: _____ cm²

- 29 The diagram below shows the distance between 4 points, A, B, C and D, after rounding off to 1 decimal place. What is the greatest possible total distance between A and D?
Leave your answer in 2 decimal places.



Ans: _____ km

- 30 Find the value of

$$\frac{1}{1000} + \frac{2}{1000} + \frac{3}{1000} + \dots + \frac{19}{1000} + \frac{20}{1000} + \frac{21}{1000}$$

Ans: _____



NANYANG PRIMARY SCHOOL
FIRST SEMESTRAL EXAMINATION
2013

PRIMARY 5

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	100

Name: _____ ()

Class: Primary 5 ()

Date: 16 May 2013

Parent's Signature: _____

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PAPER 2

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. Marks will be awarded for the relevant number sentences. For questions which require units, give your answers in the units stated.

(10 marks)

-
- 1 Estimate the value of $3842 - 637 + 86$ by first rounding off each number to the nearest ten.

Ans: _____

-
- 2 Pete has thrice as many playing cards as Tommy. Andy has 35 fewer playing cards than Pete. The three boys have 259 playing cards altogether. How many playing cards does Andy have?

Ans: _____

-
- 3 Marie mixed 0.84 l of orange syrup and 1.26 l of water to make some orange drink. She poured the drink into two jugs equally. How many millilitres of orange drink were there in each jug?

Ans: _____ ml

- 4 Box A and Box B contained some fruits. Box A weighed $4\frac{3}{8}$ kg, while Box B weighed 2875 g. What was the total mass of the two boxes of fruits?

Express your answer as a mixed number in its simplest form.

Ans: _____ kg

- 5 Raj prepared 10 l of fruit punch daily. He sold $8\frac{3}{5}$ l of the fruit punch daily for 3 days. What was the total amount of fruit punch left unsold after the three days?

Ans: _____ l

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. Marks will be awarded for the relevant number sentences.

(50 marks)

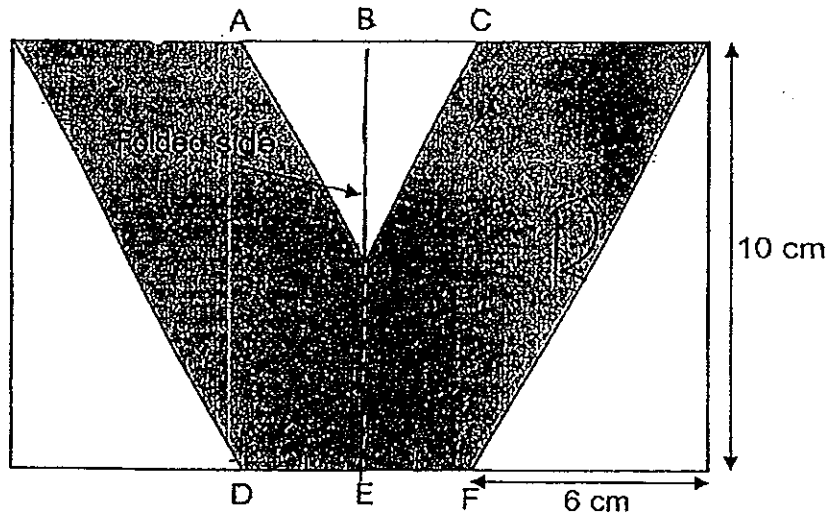
-
- 6 The sum of the first and last page number of a book is 357. What is the product of the two centre page numbers of the book?

Ans: _____ [3]

-
- 7 A machine can manufacture $3\frac{1}{4}$ m of cloth in 30 min. What is the total length of cloth that can be manufactured by two such similar machines in 3 h?

Ans: _____ [3]

- 8 A rectangular paper, 16 cm by 10 cm, is to be folded into halves along line BE before cutting.



Given that $AB = BC = DE = EF$ and $BO = OE$, and the unshaded parts are cut away from the folded paper to form a letter 'V', find

(a) the area of Triangle ACO,

(b) the area of the shaded part.

Ans: (a) _____ [1]

(b) _____ [2]

- 9 The length of a rectangular floor is $\frac{15}{4}$ m. Its breadth is $\frac{4}{5}$ of its length and $\frac{8}{9}$ of the floor is carpeted. What is the area of the floor that is not carpeted?

Ans: _____ [3]

- 10 At a company's event, 20 employees were allowed to bring along one or two guests per person. There were a total of 53 people at the event. How many employees brought along 2 guests, assuming that all employees brought at least 1 guest?

Ans: _____ [3]

11 Maggie made some cookies for her friends. If she gave each friend 7 cookies, she would need another 18 cookies. If she gave each friend 10 cookies, she would need another 66 cookies.

(a) How many friends did Maggie have?

(b) How many cookies did she make?

Ans: (a) _____ [2]

(b) _____ [2]

- 12 Mohammad needed 6 identical bottles of water to fill up 4 identical tanks completely. 11.2 l of water were needed to fill up 2 tanks and 5 bottles. What was the total capacity of one of the tanks and one of the bottles? Give your answer in ml.

Ans: _____ [4]

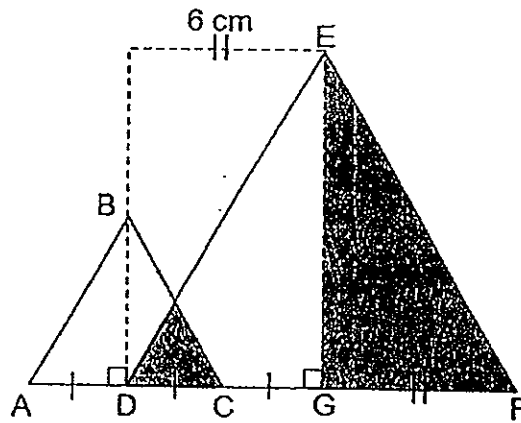
- 13 A shopkeeper imported 480 kg of rice. He packed $\frac{1}{4}$ of it into 2-kg packets and $\frac{7}{12}$ of the remainder into 3-kg packets. Then he packed the rest into 5-kg sacks. He sold each 5-kg sacks at \$11.20 per sack. How much money did he collect from the sale of the 5-kg sacks?

Ans: _____ [4]

- 14 Limin collected a total of \$198 for her donation card, consisting of \$2-notes, \$5-notes and \$10-notes. If she collected thrice as many \$5-notes as \$10-notes and 4 times as many \$2-notes as \$10-notes, how many notes did she have in all?

Ans: _____ [4]

- 15 The figure below is made up of two overlapping triangles. The length of EG is twice the length of BD. Given that EG is 10 cm and $\frac{1}{4}$ of $\triangle ABC$ is shaded, $AD = DC = CG$ and $DG = GF$, find the total area of the shaded parts.



Ans: _____ [4]

- 16 Mr Wong is now 4 times as old as his daughter, Ailing. 5 years ago, when Ailing was 3 years old, Mr Wong was $\frac{9}{10}$ of their total age then. In 16 years' time, how many times will Mr Wong be as old as Ailing?

Ans: _____ [5]

17 In class 5A, there were $\frac{1}{2}$ as many girls as boys. In class 5B, there were $\frac{1}{3}$ as many boys as girls. The number of boys in class 5B was $\frac{2}{3}$ as many as the number of girls in class 5A. There were 32 pupils in class 5B.

(a) Express the number of pupils in 5B as a fraction of the number of pupils in 5A.

Leave your answer in its simplest form.

(b) After some boys were transferred from 5A to 5B, there were $\frac{1}{2}$ as many of 5B boys as the number of 5B girls. How many pupils were there in class 5B after the transfer?

Ans: (a) _____ [2]

(b) _____ [3]

- 18 Mdm Suri wanted to buy some game sets for her school. 4 sets of board games and 3 sets of card games cost \$270. 3 sets of board games and 4 sets of card games cost \$251.50. She decided to buy board games only. What was the maximum number of board games she could buy with \$500?

Ans: _____ [5]

END OF PAPER

ANSWER SHEET

EXAM PAPER 2013

SCHOOL : NANYANG

SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1

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

16)420000

17)12912

18)1030

19)2

20)1/21

21)18.02

22)0.084

23)9.3

24)3¹/₁₂

25)6 - 2

26)46

27)759

28)30cm²

29)19.22

30)20/1000

Paper 2

1)3842 \approx 3840

637 \approx 640

86 \approx 90

3840 - 640 + 90 = 3290

2)7units \rightarrow 259 + 35 = 294

1unit \rightarrow 294 \div 7 = 42

42 x 3 - 35 = 91

3)orange drink \rightarrow 0.84L + 1.26L = 2.1L

1 jug \rightarrow 2.1L \div 2 = 1.05L

= 1050ml

4) $2875\text{g} = 2.875\text{kg} = \frac{27}{8}$

Total $\rightarrow \frac{27}{8}\text{kg} + \frac{43}{8}\text{kg} = 7\frac{1}{4}\text{kg}$

5) $10 \times 3 = 30$

$\frac{83}{5} \times 3 = \frac{254}{5}$

$30 - \frac{254}{5} = 4\frac{1}{5}$

6) last page $357 - 1 = 356$

Two centre pages $\rightarrow 357 \div 2 = 178.5 \rightarrow 1$ page

$178 + 1 = 179 \rightarrow$ second centre page

Product $\rightarrow 178 \times 179 = 31862$

7) $3\text{h} = 180\text{min} \rightarrow 6 \times 30\text{min}$

Cloth $\rightarrow 6 \times 3\frac{1}{4}\text{m} = 19\frac{1}{2}\text{m}$

Cloth $\rightarrow 19\frac{1}{2}\text{m} \times 2 = 39\text{m}$

8) a) AC $\rightarrow 6\text{cm} \times 2\text{cm} = 12\text{cm}$

$16\text{cm} - 12\text{cm} = 4\text{cm}$

ACD $\rightarrow \frac{1}{2} \times 4\text{cm} \times 5\text{cm} = 10\text{cm}^2$

b) 90cm^2

9) $1\frac{1}{4}\text{m}^2$

10) 13

11) a) 16

b) 94

12) 3500ml

13) \$336

14) 48

15) 33.75cm^2

16) 24

17) a) $\frac{8}{9}$

b) 36

18) 10