

NANYANG PRIMARY SCHOOL SECOND CONTINUAL EXAMINATION 2011

PRIMARY 5 MATHEMATICS PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40

Name:	(ý		
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Class: Primary 5 ()		- I-H37-11	
Date: 24 August 2011				
Parent's Signature:				
DO NOT OPEN THIS BO	OOKLET UNTIL	YOU ARE T	OLD TO DO	o so
FOLLOW ALL: INSTRUC	CTIONS CAREFU	JLLY.		
ANSWER ALL QUESTION	ONS.			

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

PAPER 1 (BOOKLET A)

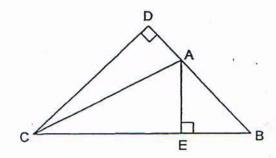
Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

- 1 Round off 44 501 to the nearest ten thousands.
 - (1) 40 000
 - (2) 44 000
 - (3) 45 000
 - (4) 50 000
- 2 Find the value of $4.4 \div 200$.
 - (1) 0.22
 - (2) 0.44
 - (3) 0.022
 - (4) 0.044

- Which of the following has the same value as $\frac{0.29}{4}$?
 - (1) $\frac{29}{400}$
 - (2) $\frac{29}{4000}$
 - (3) $\frac{2.9}{400}$
 - (4) $\frac{2.9}{4}$
- Which of the following is the same as $2\frac{7}{10}$ 1?
 - (1) 207 ml
 - (2) 270 ml
 - (3) 2070 ml
 - (4) 2700 ml
- 5 Round off 31.156 to 2 decimal places.
 - (1) 31.05
 - (2) 31.15
 - (3) 31.16
 - (4) 31.20

In the figure below, what is the height of triangle ABC given that the base is AB?



- (1) AC
- (2) AE
- (3) CD
- (4) BC

7 Which of the following is **not** an equivalent ratio of 12:42?

- (1) 1:4
- (2) 2:7
- (3) 4:14
- (4) 24:84

At present, Tammy is 20 years old while her mother is thrice her age. Find the ratio of Tammy's age to her mother's age in 6 years' time.

- (1) 1:3
- (2) 7:9
- (3) 7:27
- (4) 13:33

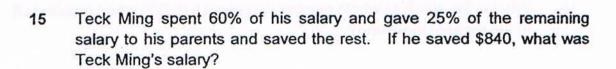
- A cuboid has a base of area 5 cm², $\frac{1}{3}$ of the height of cuboid is 6 cm. What is the volume of the cuboid?
 - (1) 10 cm³
 - (2) 18 cm³
 - (3) 30 cm³
 - (4) 90 cm³
- 10 Express 25 m as a percentage of 0.2 km.
 - (1) 0.8 %
 - (2) 8 %
 - (3) 12.5 %
 - (4) 125 %
- 11 Find the missing operation in the box below.

$$7 \times (30 \bigcirc 3) - (32 \div 4) = 223$$

- (1) +
- (2) -
- (3) ×
- (4) ÷

- Jolin had $2\frac{3}{10}$ m of ribbon. The length of ribbon that Mary had was 5 times as long as the length of ribbon Jolin had. What was the length of ribbon that Mary had?
 - (1) $\frac{23}{50}$ m
 - (2) $2\frac{7}{10}$ m
 - (3) $7\frac{3}{10}$ m
 - (4) $11\frac{1}{2}$ m
- The ratio of the number of black beads to the number of red beads to the number of green beads in a box was 3:9:11. When a total number of 60 black beads and red beads were added into the box, the number of black beads, red beads and green beads became the same. How many beads were in the box at first?
 - (1) 115
 - (2) 138
 - (3) 198
 - (4) 460

14	wate	r. If all its water	easured 9 cm by 6 cm by 4 cm r was used to fill 4 identical co e length of each edge of a cub	ubical containers to
	(1)	54 cm		
	(2)	27 cm		
	(3)	3 cm		ali est declarard



(1) \$1120

6 cm

(4)

- (2) \$2800
- (3) \$3360
- (4) \$5600

Nam	ne:()	Class: P	75()
P5 (CA2 2011				Logi
PAP	PER 1 (BOOKLET B)				
	stions 16 to 25 carry 1 mark each ided. For questions which require				
7					(10 marks)
16	What is the smallest whole number to the nearest thousand?	er that g	ives 97	8 000 whe	en rounded off
			Ans:	oslii puta	(1)
17	Insert a pair of brackets "(mathematically correct.)* in t	the equ	ation belo	w so that it is
	280 ÷ 7 - 6	X	5 +	8) =	2
18	Find the value of $\frac{8}{9} \div 4$. Leav	e your	answe	r in its şim	plest form.

Ans: _

19 Express $\frac{7}{8}$ as a decimal.

Ans:		

The mass of a box was 3.8 kg when completely filled with sand. 650 g of sand could fill $\frac{1}{4}$ of the box. What was the mass of the empty box? Leave your answer in kilograms.

Ans:	kg
,	

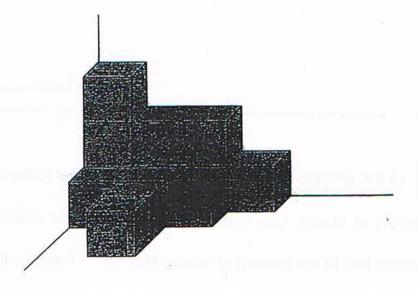
21 $\frac{2}{3}$ of the amount of money Ahmad had was the same as $\frac{1}{3}$ of the amount of money May had. Find the ratio of the amount of money Ahmad had to the amount of money May had. Express the ratio in its simplest form.

Ans: _____

A sack of 51 apples was repacked into two smaller packs, Pack A and Pack B. The ratio of the number of apples in Pack A to the number of apples in Pack B is 8:9. Find the number of apples in Pack A.

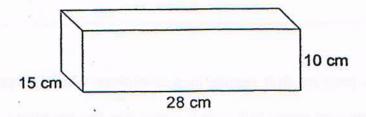
Ans:		

The figure below shows a solid which is made up of unit cubes. How many more unit cubes must be added to make a solid with a volume of 20 cubic units?



Ans:	

A wooden cuboid measures 28 cm by 15 cm by 10 cm.
What is the maximum number of 4-cm cubes that can be cut from it?



Ans: _____

25 Express 0.201 as a percentage.

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)

Fanny had to prepare fruit punch in a container with a capacity of $17\frac{1}{4}$ l. She poured some fruit punch syrup into the container. Then she added 9 jugs of water to fill the container to its brim. Each jug had a capacity of $1\frac{3}{4}$ l. What was the amount of fruit punch syrup that Fanny had poured into the container? Leave your answer as a mixed number in its simplest form.

Ans:			1
/ uio			

Siting had some pens. $\frac{2}{5}$ of them were red and the rest were blue. She sold $\frac{5}{8}$ of the red pens and $\frac{2}{3}$ of the blue pens. She had 70 pens left. How many pens did Siting have at first?

Ans: -____

5 identical Math books and 3 identical Science books were placed on top of one another to form a stack of books which was 4.05 cm high. If 1 of the Science book was removed from the stack, the height will become 3.7 cm. What was the thickness of each Math book?

Ans: cm

	Express the increase in the	he height of the water level as a	percentage of
	the original height of the		
		or polled tells or any principated a	
			\rightarrow (1)
		Ans:	%
30	Yusof took 30 minutes to only took 15 minutes to	o clean his father's car while hi clean it. How long would both	is elder brother of them take to
	only took 15 minutes to clean the car together?	clean it. How long would both	of them take to
105-1	only took 15 minutes to clean the car together?	clean it. How long would both	of them take to
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NANYANG PRIMARY SCHOOL SECOND CONTINUAL EXAMINATION 2011

PRIMARY 5 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name:		is	()			
Class:	Primary 5 ()					
Date:	24 August 2011		<u>.</u>				
Parent	r's Signature:			W	2)		
DO NO	OT OPEN THIS BOO	KLET L	INTIL YO	U ARE T	OLD TO	DO S	0.
FOLL	OW ALL INSTRUCTI	ONS C	AREFULL	Υ.			
ANSW	VER ALL QUESTION	S.				· X	
YOU A	ARE ALLOWED TO U	JSE A C	CALCULA	TOR.			

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.
For questions which require units, give	your answers in the units stated.

(10 marks)

Gopal wanted to walk to a park which was $2\frac{2}{5}$ km away from his home. He took a short break after he had covered $\frac{1}{5}$ of the distance. After the break, he walked another $\frac{3}{25}$ km. Find the distance that Gopal had covered. Express your answer as a fraction in its simplest form.

Ans:	km	1

2 The table below shows the charges for travelling in a taxi.

Distance Travelled	Cost
For the first 1 km	\$2.80
For every subsequent 385 m or part thereof	\$0.20

Mr Tan had travelled 10.4 km in the taxi. How much did he pay?

Ans:	\$		72	

3 The ratio of the area of a rectangle to the area of a square is 2:7. The length of the square is 28 cm, find the area of the rectangle.

Ans: _____ cm²

removed from the musi	ic room?	1 IOW II	nany keyboards were

Ans:	[2]

Alimah bought a mobile phone at 20% discount off its original price. She paid a total of \$107 for the mobile phone which was inclusive of a 7% GST on the discounted price. What was the original price of the mobile phone?

Ans: \$____

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)

- Rosna's monthly allowance was \$2700. She spent $\frac{2}{3}$ of her monthly allowance on food and $\frac{3}{10}$ of the remainder on clothes. After she had paid for her children's enrichment classes, she had \$225 left.
 - (a) What fraction of her monthly allowance did she spend on clothes?
 - (b) How much did she spend on her children's enrichment classes?

Ans:	(a)	[1]	ı
uio.	(4)	1.1	ı

Haru was reading a book. On the first day, the ratio of the number of pages he had read to the number of pages he had not read was 1:9. On the second day, Haru read another 20 pages and the ratio of the number of pages he had read to the number of pages he had not read became 1:7. How many pages did the book have?

Ans:	CLEANING CONTINUE	[3]

A rectangular tank with a base area of 56 cm² contained some water. The height of the water level was $\frac{2}{5}$ that of the height of the tank. The volume of the water in the tank was 3584 cm³. Find the height of the tank.

Ans:_____[3]

Mrs Yeo bought some identical dresses for \$480. If she bought them at 9 the Great Singapore Sales, she could buy them at a discount of 25%. With the amount of money saved, she could then buy 2 more such dresses at the discounted price. How much did Mrs Yeo pay for each dress? [3] Ans: 10 There were 20 questions in a Science Quiz. For every question answered correctly, 6 marks would be awarded. For every question answered wrongly, 3 marks would be deducted. Jamie answered all the questions and scored 75 marks. How many questions did she answer correctly?

[3]

Ans:

- The cost of 8 identical pens, 3 identical books and 1 file is \$74. The cost of 2 such pens and one of such file is \$23, while the cost of the pen and the book is \$12.
 - (a) What is the cost of 5 such pens and 2 such books?
 - (b) What is the cost of one book?

Ans:	(a)	 [3]

(b) _____[1]

- There were 2 factories in the same district. There were 1190 more workers in Factory A than in Factory B. After 457 workers had left Factory B, the number of workers in Factory A became 4 times the number of workers in Factory B.
 - (a) How many workers were there in Factory A?
 - (b) How many workers were there in Factory B at first?

Ans:	(a)	[3]
745	(b)	 [1

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			*				
		(€6					

Ans:

[4]

- The length of a rectangular tank was $\frac{3}{2}$ of its breadth. The ratio of its breadth to its height was 5 : 4. When the tank was half-filled with water, the height of the water level was 8 cm.
 - (a) Find the capacity of the tank.
 - (b) A tap filled the half-filled tank at a rate of 6 litres per minute. How long did it take to fill up the tank completely?

Ans:	(a)	
	(b)	[2

Hanson had some one-dollar coins and some fifty-cent coins. The ratio of the number of one-dollar coins to the number of fifty-cent coins he had was 2:5. Hanson took 140 fifty-cent coins to the bank and changed these fifty-cent coins for the same value of one-dollar coins. In the end, the number of one-dollar coins to the number of fifty-cent coins he had became 5:2. Find the value of the fifty-cent coins Hanson had at first.

Ans:	[5]
A113.	F-7

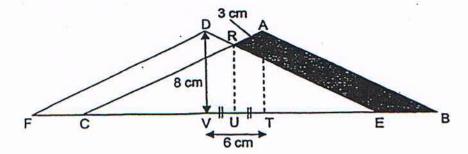
- NY Primary School organised a 2-Day Charity Funfair. Admission tickets were sold to every visitor at a cost of \$40. On the first day, 120 more children visited the funfair than adults. The number of children on the second day was 25% more than the number of children on the first day. The number of adults on the second day was 5% less than the number of adults on the first day. There were a total of 2570 people at the funfair on the second day.
 - (a) Find the number of adults at the funfair on the first day.
 - (b) What was the total sum of money collected from the sale of the admission tickets for both days?

Ans:	(a)	[3]
	(b)	[2]

Hotel Hollywood and Hotel Broadway had a total of 5200 guests. After $\frac{3}{4}$ of the guests in Hotel Hollywood and $\frac{3}{5}$ of the guests in Hotel Broadway checked out, Hotel Broadway had 260 more guests than Hotel Hollywood. How many guests did Hotel Hollywood have at first?

Ans: _____[4]

The figure shows two identical isosceles triangles, ABC and DEF overlapping each other. Given that DV = 8 cm, AS = 3 cm, VU = UT and VT = 6 cm. Find the area of the shaded part, ABER.



Ans:	. [4]
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ANSWER SHEE

EXAM PAPER 2011

SCHOOL: NANYANG

SUBJECT: PRIMARY 5 MATHEAMATICS

TERM CA2

Q1	Q2	Q3	Q4	Q5	Q6	07	08	09	Q10	011	012	013	014	015
1	3	1	4	3	3	1	4	4	3	1	4	2	3	2

16)977500

 $17)280 \div 7 - (6x 5 + 8) = 2$

18)2/9

19)0.875

20)1.2kg

21)1:2

22)24 apples

23)7

24)42

25)20.1%

26)11/2L

27)200 pens

28)0.6cm

29)45%

30)10 min

Paper 2

1)12/25km + 3/25km

= 3/5 km

 $3)28cm \times 28cm = 783cm_2$ 784cm₂→7 units

1 unit > 784cm2 ÷ 7 = 112cm2

Rectangle(2units)→112cm2 +

112cm₂ = 224cm₂

5)107%-->\$107

100%-->\$107/107 x 100

= \$100

80%-->\$100

100%-->\$100/80 = \$125

2)10.4km = 10400m / 1km = 1000m

10400m - 1000m = 9400m

9400m÷385m≈ 24

24 + 1 = 25

 $25 \times \$0.20 = \5

\$2.80 + \$5 = \$7.80

4)12 + 20 = 32

176→32 units

1unit \rightarrow 176 \div 32 = 5.5

12 - 10 = 2

2 units \rightarrow 5.5 + 5.5 = 11 keyboards

6)a)3/3 - 2/3 = 1/3

 $1/3 \times 3/10 = 1/10$

b)2/3 = 20/30

1/10 = 3/20

 $$2700 \div 30 = $90 (1unit)$

 $20/30 \rightarrow $90 \times 20 = 1800

 $3/20 - ... $90 \times 3 = 270

\$1800 + \$270 = \$2070

\$2700 - \$2070 = \$630

\$630 - \$225 = \$405

Page 1 to 2

page 1

7)2 units→20 8)3584cm2 \div 56cm2 = 64cm 1 unit \rightarrow 20 ÷ 2 = 10 64cm ÷ 2 = 32cm 8 + 72 = 80 $32cm \times 5 = 160cm$ 10 + 70 = 8080 units->10 x 80 = 800pages $10)20 \times 6 = 120$ $9)25/100 \times $480 = 120 120 - 75 = 45 $$120 \div 2 = 60 $45 \div 9 = 5$ 75%-->\$60 20-5=15 questions 100%-->\$60/75 x 100 = \$80 11)a)\$39 12)a)1190 + 457 = 1647b)\$7 1647→3 units 1 unit > 549 4 units -> 549 x 4 = 2196 workers b)549 + 457 = 1006 workers 13)20%-->G $14)H \rightarrow 8cm + 8cm = 16cm$ 40%-->B 16cm→8 units $20/100 \times 420 = 84$ 1 unit→2cm 420 - 84 = 336 $(10units)B \rightarrow 2cm \times 10 = 20cm$ 0.4 = 40%(G) $(15units)L \rightarrow 2cm \times 15 = 30cm$ 100% - 40% = 60% 30cm x 20cm x 16cm = 9600cm3 60%-->336 (B) $30cm \times 20cm \times 8cm = 4800cm_3$ 40%-->336/60 x 40 $9600cm_3 - 4800cm_3 = 4800cm_3$ = 224 (G)= 4L 800ml 224 - 84 = 140 girls 1min→60secs $60 \text{sec} \div 6L = 10 \text{secs}$ 10secs > 1L 1secs→100ml 4L800ml

10secs+10secs+10secs + 10secs+1secs x 8 = 48secs a)9600cm3 b)48seconds 15)4units + 140→25units + 700 16)a)1100 21units -> 700 + 140 = 840 b)195600 1unit->40 5units→200 $200 \times 50c = 100 18)8 - 3 = 5 $6 \times 5 = 30$ 17)B→5units(5x130) $\frac{1}{2} \times 6 \times 3 = 9$ H→8units $\frac{1}{2} \times 3 \times 3 = 4\frac{1}{2}$ 5units +150+8units -> 5200 Area of shaded part = $30 + 9 + 4\frac{1}{2}$ 13units + 650→5200 $= 43\frac{1}{2}$ 13units \rightarrow 5200 - 650 = 4550 1unit→350

8units->350 x 8 = 2800