

NANYANG PRIMARY SCHOOL

FIRST CONTINUAL EXAMINATION 2017

PRIMARY 6 MATHEMATICS PAPER 1

DURATION: 50 MINUTES

				4.
Booklet A	/ 20	Paper	r 1 Total:	
Booklet B	/ 20		/ 40	
Name:	()		
Class: Primary 6 ()			
Date: 27 February 2	017			
Any query on marks seek your understand of marks will lead to d	ling in this matte	er as any del	ay in the confi	
Parent's Signature:				
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 Find the value of 16.4 7.16.
 - (1) 8.88
 - (2) 9.24
 - (3) 9.36
 - (4) 23.56
- 2 Find the value of $24 + 21 \div (7 4) \times 5$.
 - (1) 59
 - (2) 75
 - (3) 3
 - (4) 155

- 3 How many thousands are there in the product of 7000 and 40?
 - (1) 28 000
 - (2) 2800
 - (3) 280
 - (4) 28
- Find the value of $\frac{3}{5} + \frac{6}{7}$.
 - (1) $\frac{3}{4}$
 - (2) $\frac{18}{35}$
 - (3) $1\frac{16}{35}$
 - (4) $1\frac{26}{35}$

- 5 Find the value of $\frac{7}{4} \times 14$.
 - (1) $\frac{1}{8}$
 - (2) $15\frac{3}{4}$
 - (3) $19\frac{1}{2}$
 - (4) $24\frac{1}{2}$
- Which one of the following fractions is not an equivalent fraction of $\frac{4}{10}$?
 - $(1) \frac{6}{15}$
 - (2) $\frac{10}{25}$
 - (3) $\frac{14}{30}$
 - (4) $\frac{16}{40}$

7 Simplify the following algebraic expression.

$$8 + 3k \times 6 - 1$$

- (1) 65k
- (2) 8 + 15k
- (3) 18k + 7
- (4) 18k 7
- The total mass of 3 pears is 300 g and the total mass of 5 apples is 700 g. What is the average mass of the fruits?
 - (1) 120 g
 - (2) 125 g
 - (3) 240 g
 - (4) 500 g

- 9 In a class of 40 pupils, 30 of them were girls. What percentage of the class were girls?
 - (1) 25%
 - (2) 30%
 - (3) 40%
 - (4) 75%
- A nylon rope is $\frac{6}{7}$ m long. It is cut into 12 equal pieces. What is the length of each piece?
 - (1) $\frac{1}{14}$ m
 - (2) $\frac{3}{37}$ m
 - (3) $10\frac{2}{7}$ m
 - (4) 14 m

- 11 The capacity of 40 identical cups is 12.08 *l*. What is the capacity of 1 such cup?
 - (1) 0.302 1
 - (2) 0.32 l
 - (3) 3.02 l
 - (4) 3.2 1
- The average of two numbers is 530. One of the numbers is 250. Find the other number.
 - (1) 15
 - (2) 280
 - (3) 390
 - (4) 810

13 Arrange the following fractions from the largest to the smallest.

$$\frac{6}{5}$$
 , $1\frac{1}{4}$, $1\frac{5}{6}$, $\frac{5}{3}$

- (1) $\frac{6}{5}$, $1\frac{1}{4}$, $\frac{5}{3}$, $1\frac{5}{6}$
- (2) $1\frac{5}{6}$, $1\frac{1}{4}$, $\frac{6}{5}$, $\frac{5}{3}$
- (3) $1\frac{5}{6}$, $\frac{6}{5}$, $1\frac{1}{4}$, $\frac{5}{3}$
- (4) $1\frac{5}{6}$, $\frac{5}{3}$, $1\frac{1}{4}$, $\frac{6}{5}$
- 14 There were 16 tables in a room at first. 4 tables were then added into the room. Find the percentage increase in the number of tables in the room.
 - (1) 20%
 - (2) 25%
 - (3) 75%
 - (4) 125%

- Nathan had 95 concert tickets. He gave 5 concert tickets to each of his friends and had 25 concert tickets left. How many friends did he give his concert tickets to?
 - (1) 14
 - (2) 19
 - (3) 24
 - (4) 70

Name	e:	.()	Class: Pr 6 ()
PAPE	R 1 (BOOKLET B)				
provid	tions 16 to 25 carry 1 ma led. For questions which	rk each. Writ require units,	e your a	answers in the ir answers in th	spaces e units
stated	l.			(10	marks)
16	Find the value of $\frac{5m+58}{4}$	8 when <i>m</i> = 6	3.		
			55	ě	
			Ans:		
17	Find the missing number	in the box.			
	? ÷4-16	6 = 64			
			Ans:		
18	Find the value of 40.56 ÷	· 8.			
			Ans:		

19 Express 3021 thousandths as a decimal.

Find the product of $\frac{5}{12}$ and $\frac{3}{10}$. Leave your answer in its simplest form.

Ans: _____

21 Find the value of $9 \div \frac{6}{7}$. Leave your answer as a mixed number in its simplest form.

Ans: _____

22 Happy Bakery sold 159 345 buns last month. Round off this number to the nearest hundred.

Ans: _____

23	Joseph completed a race in $1\frac{5}{4}$ min. He was 14 s faster than ian.
	How long did lan take to complete the race?
	Ans: s
24	Reuben and Jayson shared a total of 40 cookies. Jayson received 20% of the cookies. How many cookies did Jayson receive?
	Ans:
25	After reading 60% of his storybook, Arif had 36 more pages to read. How many pages were there in the storybook?
	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)
Devi packed $\frac{2}{3}$ kg of salt into small packets. Each packet contained $\frac{1}{9}$ kg of salt. How many small packets of salt were there?
Ans:

27 The table below shows the marks Zhi Ming scored for various subjects in an examination. Each subject had a maximum score of 100 marks.

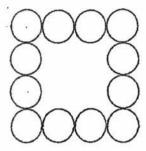
Subject	Marks
English	80
Chinese	75
Mathematics	90
Science	79

How many percent of the total marks did Zhi Ming score in the examination?

Ans:	%
	NSV. 1441281

28	The average of six numbers is 18. When a 7 th number is added, the total of the seven numbers becomes 118. What is the 7 th number?
	Ans:
29	Yumin had 11h pens. She wanted to give her nephews 4 pens each, but found out that she was 2h pens short. Express the number of nephews Yumin had in terms of h.
	Ans:

30 Michael has some fifty-cent coins. He uses 12 fifty-cent coins and arranges them to form the outline of a small square as shown in the figure below.



He uses 76 fifty-cent coins and arranges them in the same way to form the outline of another bigger square. Find the total value of the coins on one side of the bigger square.

Ans: \$	
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FIRST CONTINUAL EXAMINATION 2017

PRIMARY 6 MATHEMATICS PAPER 2

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _			()
Class: Pi	rimary 6 ()		
Date: <u>27</u>	February 2017			
seek you		this ma	tter as any	ed by <u>9 March 2017</u> . We delay in the confirmation of results.
Parent's	Signature:	Įr.		
FOLLOW	OPEN THIS BOOK ALL INSTRUCTIO ALL QUESTIONS	NS CA		ARE TOLD TO DO SO.
YOU ARE	E ALLOWED TO US	SE A CA	ALCULATO	OR.

PAPER 2

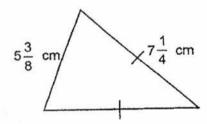
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

The mass of a cow is 354 kg. The cow is 8 times as heavy as a sheep. Find the mass of the sheep. Give your answer as a decimal in kilograms.

Ans: _____ kg

2 The figure below shows an isosceles triangle. Find its perimeter.



Ans: _____ cm

3	The price of a television set before GST was \$2990. Mr Toh bought the television set and had to pay an additional 7% GST. What was the amount of GST he had to pay?
	Ans: \$
4	The average of five consecutive numbers is 700. Find the value of the smallest number.
	Ans:

Peiqi had some cards. She could place them into sets of 4 cards or sets of 6 cards without leaving any remainder. When she placed them into sets of 7 cards instead, she needed one more card to make the last set of 7. What was the smallest possible number of cards she had?

A	
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)

Jingwei bought three fruits from the supermarket. The table below shows the mass of each fruit he bought.

Name of fruit	Mass
Watermelon	6.96 kg
Pineapple	0.82 kg
Papaya	2.85 kg

- (a) Find the total mass of the three fruits he bought.
- (b) Round off the mass of the watermelon, in kg, to 1 decimal place.

Ans:	(a)	 [2]
	(b)	 [1]

- 7 A rectangle has a length measuring $8\frac{3}{4}$ cm. Its breadth is $2\frac{1}{6}$ cm shorter than its length.
 - (a) Find the breadth of the rectangle.
 - (b) Find the area of the rectangle.

Ans:	(a)	,	[1]
	(b)		[2]

- 8 Lisa, Mei and Nurul shared \$n. Nurul received 4 times as much money as Lisa. Mei received \$24 less than Nurul.
 - (a) How much money did Lisa receive in terms of n?
 - (b) If n = 93, how much money did Lisa receive?

Ans:	(a)	[2]
	(b)	[1]

9	Mr Ong earns the same amount of money each month. In May, he spent \$2000 and saved the rest. In June, he spent 10% more and the amount saved decreased by 25%.	
	(a) How much more did Mr Ong spend in June?	
	(b) How much does Mr Ong earn each month?	
Q//	Ans: (a) [1]	
	(b)[2]	
10	Coen has 252 candies, Devi has 304 candies and Rashid has 182 candies. What is the total number of candies that Rashid must receive from Coen and Devi so that each of them will have the same number of candies?	
	Ans:[3]	

Tarts are sold in boxes of 4 tarts or in boxes of 12 tarts. Each box of 4 11 tarts is sold at \$10.90 while each box of 12 tarts is sold at \$32. Melissa has \$250. How many tarts can she buy at most?

Ans:

Joyce and Kaylene had some stickers. The number of stickers Joyce had was $\frac{4}{5}$ of what Kaylene had. Joyce then gave $\frac{5}{8}$ of her stickers to Kaylene. As a result, Kaylene had 108 more stickers than Joyce. How many stickers did Joyce have at first?

Ans:	[4]

The figure below shows Rectangle A of length 16 cm and breadth 10 cm. The length of the rectangle is increased by 50% and its breadth is increased by 20% to form a new rectangle. What is the percentage increase in its area?

Rectangle A 10 cm

Ans: _____ [4]

Hassan bought some keychains and some magnets. Each keychain 14 cost \$2.65 and each magnet cost \$3.35. Hassan bought 7 fewer magnets than keychains. He spent a total of \$108.55. How many keychains and magnets did he buy altogether? Ans:

15 A table is filled with numbers in a certain pattern.

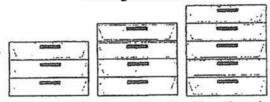
	Column A	Column B	Column C	Column D
Row 1	67.57.50	4 .	. 8	12
Row 2	24	<i>'</i> 20 ·	. 16	
Row 3		28	. 32	36
Row 4	48	-44 ·	40 ·	
Row 5	38.00	52	56	60
Row 6	72	68	64	
;		:	:	:
Row 30	Α	В	:	

- (a) What number will appear in Row 30 Column A?
- (b) What number will appear in Row 30 Column B?
- (c) In which row will the number 1088 appear?

Ans:	(a)	 [1]
	(b)	 [1]
	(c)	 [2]

- Toyoyo Shop sold a total of 180 storage drawers with three, four or five tiers. There were 682 tiers for all these storage drawers. The total number of the three-tiered and four-tiered storage drawers was thrice the number of the five-tiered storage drawers.
 - (a) How many five-tiered storage drawers were there?
 - (b) How many three-tiered storage drawers were there?

Storage Drawers



Three-tiered Four-tiered Five-tiered

Ans:	(a)	([1]

- There were two types of fish in a pond. The number of catfish was $\frac{3}{7}$ of the number of goldfish. When 21 goldfish and some catfish were added into the pond, there was a 15% increase in the number of goldfish and the number of fish in the pond was increased by 35%.
 - (a) How many catfish were there at first?
 - (b) How many catfish were added into the pond?

Ans:	(a)	[2]

(b)	[3]
(0)	

- A shop owner paid a total of \$5504 for some shirts and some ties. He paid \$128 less for the shirts than the ties. Each tie cost \$16 more than each shirt. The number of ties bought was $\frac{2}{3}$ of the number of shirts bought.
 - (a) How much did he pay for all the shirts?
 - (b) How many shirts did he buy?

Ans: (a)	[1]
(b)	[4]

END OF PAPER

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YEAR

: 2017

LEVEL

: PRIMARY 6

SCHOOL

: NANYANG PRIMARY

SUBJECT

MATHEMATICS

TERM

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CA1

### Paper 1

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

Q16 22

Q17 320

Q18 5.07

Q19 3.021

 $Q20 \quad \frac{1}{8}$ 

Q21  $10\frac{1}{2}$ 

Q22 159 300

Q23 119 sec

Q24 8 cookies

Q25 90 pages

Q26 6 packets

. 10.1.111...

Q27 81 %

Q28 10

Q29 
$$\frac{13h}{4}$$

## Paper 2

Q1 
$$C \rightarrow 8u$$
  
 $S \rightarrow 1u$   
 $8u \rightarrow 354$   
 $1u \rightarrow S \Rightarrow 44.25 \text{ kg}$ 

Q2 
$$7\frac{1}{4} + 5\frac{3}{8} + 7\frac{1}{4} = 19\frac{7}{8}$$
 cm

Q3 
$$100\% \rightarrow $2990$$
  
 $107\% \rightarrow $2990 \times \frac{107}{100} = $3199.30$   
 $$3199.30 - $2990 \Rightarrow $209.30$ 

Q4 
$$700 \times 5 = 3500$$
  
 $3500 \div 5 = 700$   
1 2 3 4 5 Total  
 $698 + 699 + 700 + 701 + 702 = 3500$   
 $700 - 1 = 699$   
 $700 - 2 \Rightarrow 698$ 

# Q5 48 cards

Q6 (a) 
$$6.96 + 0.82 + 2.85 \Rightarrow 10.63 \text{ kg}$$

(b) 
$$6.96 \approx 7.0 \text{ kg}$$

Q7 (a) 
$$8\frac{3}{4} - 2\frac{1}{6} = 6\frac{7}{12}$$
 cm

(b) 
$$8\frac{3}{4} \times 6\frac{7}{12} = 57\frac{29}{48} \text{ cm}^2$$

Q8 (a) Lisa received 
$$\Rightarrow \$\left(\frac{n+24}{9}\right)$$

(b) Lisa received 
$$\rightarrow \frac{93+24}{9} \Rightarrow \underline{\$13}$$

Q9 (a) 
$$100\% \rightarrow $2000$$
  
 $110\% \rightarrow $2200$   
 $$2200 - $2000 \Rightarrow $200$ 

(b) 
$$100\% - 25\% = 75\%$$
  
 $$200 \rightarrow 25\%$   
 $$200 \times 3 = $600$   
 $$600 + $2200 \Rightarrow $2800$ 

Q10 Coen 
$$\rightarrow 252$$
 }  
Devi  $\rightarrow 304$  } 738  
Rashid  $\rightarrow 182$  }  
738 ÷ 3 = 246  
246 - 182  $\Rightarrow$  64 candies

Q11 Box of 
$$4 \rightarrow $10.90$$
  
Box of  $12 \rightarrow $32$   
 $$250 \div $32 = 7.8125$   
 $$32 \times 7 = $224$   
 $$250 - $224 = $26$   
 $$26 \div $10.90 \approx 2$   
 $2 \times 4 = 8$   
 $12 \times 7 = 84$   
 $84 + 8 \Rightarrow 92 \text{ tarts}$ 

- Q12 8u-5=3u 10u+5u=15u 15u-3u=12u  $108 \to 12u$   $1u \to 108 \div 12=9$  $9 \times 8 \Rightarrow 72 \text{ stickers}$
- Q13 80%
- Q14 Keychain  $\rightarrow$  \$2.65 Magnet  $\rightarrow$  \$3.35 \$3.35 x 7 = \$23.45 \$108.55 + \$23.45 = \$132 \$3.35 + \$2.65 = \$6 \$132 \div 6 = 22 22 x 2 = 44 44 - 7 \Rightarrow \frac{37}{2}
- Q15 (a) 360 (b) 356
  - (c) 91
- Q16 (a) 45
  - (b) 83

Q17 (a) 
$$15\% \rightarrow 21$$
  
 $115\% \rightarrow 161$  (total goldfish in the end)  
 $161-21=140$   
 $140 \div 7=20$  (1u)  
 $20 \times 3 \Rightarrow \underline{60 \text{ catfish}}$ 

(b) 
$$140 + 60 = 200$$
  
 $100\% \rightarrow 200$   
 $100\% + 35\% = 135\%$   
 $135\% \rightarrow 200 \times \frac{135}{100} = 270$   
 $135\% \rightarrow 270$   
 $35\% \rightarrow 270 - 200 = 70$   
 $70 - 21 \Rightarrow 49 \text{ eatfish}$ 

Q18 (a) He paid \$5504 for shirts + ties.  
Shirts 
$$\rightarrow \frac{\$5504 - \$128}{2} \Rightarrow \underline{\$2688}$$

(b) <u>96 shirts</u>