



NANYANG PRIMARY SCHOOL
FIRST CONTINUAL EXAMINATION
2016

PRIMARY 5
MATHEMATICS
PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20
Booklet B	/ 20

Paper 1 Total: / 40

Name: _____ ()

Class: Primary 5 ()

Date: 3 March 2016

Parent's Signature: _____

Any query on marks awarded should be raised by **11 March 2016**. 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 Which one of the following has the value of three million, nine hundred and three thousand, two hundred and four in figures?

- (1) 3 004 104
- (2) 3 390 204
- (3) 3 903 204
- (4) 3 930 204

- 2 Find the value of $4500 \times 20 + 300$.

- (1) 300
- (2) 30
- (3) 3
- (4) 0.3

3 Find the value of $72 \div 48 \div 8 - 4 \times 3$.

(1) 33

(2) 66

(3) 76

(4) 80

4 Find the value of $50 - (6 + 18 \div 3) \times 2$.

(1) 26

(2) 2

(3) 36

(4) 52

5 Find the value of $\frac{5}{9} - \frac{1}{3}$

(1) $\frac{2}{9}$

(2) $\frac{4}{9}$

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

(4) $\frac{8}{9}$

6 Find the product of $\frac{4}{9}$ and 6.

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

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

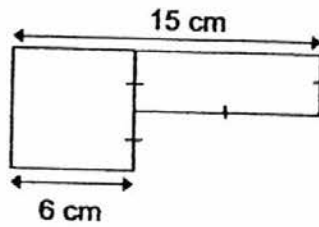
(3) $3\frac{1}{3}$

(4) $6\frac{4}{9}$

7 A clockwise $\frac{1}{4}$ -turn is equivalent to a/an _____.

- (1) clockwise 45° turn
- (2) anti-clockwise 90° turn
- (3) clockwise 180° turn
- (4) anti-clockwise 270° turn

8 The figure below is made up of a rectangle and a square. Find the area of the figure.



- (1) 45 cm^2
- (2) 63 cm^2
- (3) 81 cm^2
- (4) 90 cm^2

- 9** Arrange the following decimals in ascending order.

23.106, 23.16, 23.1, 23.016

- (1) 23.016, 23.1, 23.106, 23.16
(2) 23.016, 23.16, 23.106, 23.1
(3) 23.1, 23.16, 23.016, 23.106
(4) 23.106, 23.016, 23.16, 23.1
- 10** Judy bought a cake which weighed 5 kg. She divided the cake into 3 equal pieces. What was the mass of each piece of cake? Give your answer correct to 2 decimal places.

- (1) 1.60 kg
(2) 1.66 kg
(3) 1.67 kg
(4) 1.70 kg

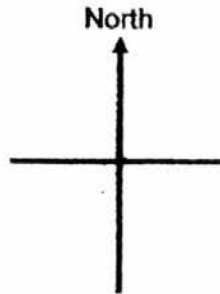
11 Find the product of 437 and 68.

- (1) 6118
- (2) 29 516
- (3) 29 616
- (4) 29 716

12 Suhaidah bought $\frac{5}{12}$ kg of flour. Zora bought $\frac{1}{3}$ kg more flour than Suhaidah. How much flour did they buy altogether?

- (1) $\frac{1}{2}$ kg
- (2) $\frac{3}{4}$ kg
- (3) $1\frac{1}{12}$ kg
- (4) $1\frac{1}{6}$ kg

- 13 Kerin was facing north-east after making an anti-clockwise 225° turn.
At which direction was she facing at first?



- (1) North
- (2) South
- (3) East
- (4) West

- 14 Last year, John completed a race in 41.83 seconds. This year, he completed the same race 4.57 seconds faster. What was John's timing this year? Round off your answer to the nearest second.

- (1) 36 seconds
- (2) 37 seconds
- (3) 38 seconds
- (4) 39 seconds

- 15 Jamie bought 9 bottles of orange juice. Each bottle contained 1.35 l of juice. Jamie then poured the juice equally into 5 jugs. How much orange juice was there in each jug?

- (1) 0.27 l
- (2) 0.75 l
- (3) 2.35 l
- (4) 2.43 l

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 Find the value of 240×25 .

Ans: _____

17 Write down all the common factors of 16 and 28.

Ans: _____

18 Express $8\frac{2}{7}$ as an improper fraction.

Ans: _____

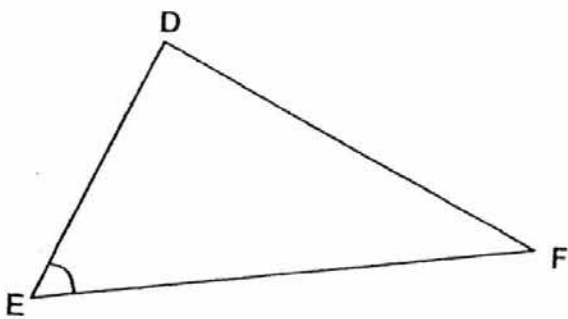
19 Express $\frac{44}{6}$ as a mixed number in its simplest form.

Ans: _____

20 Find the value of $\frac{11}{4} \times 12$.

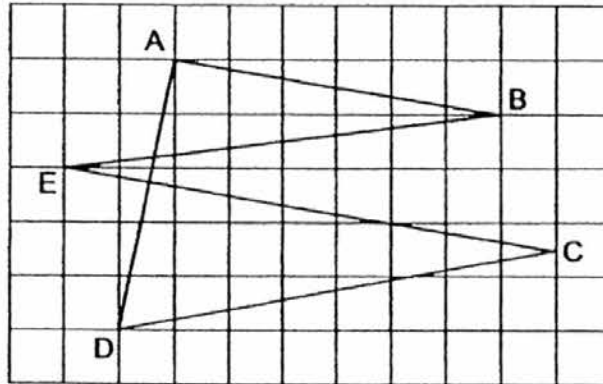
Ans: _____

21 Using a protractor, measure and write down the size of $\angle DEF$.



Ans: _____ °

22 In the grid below, which two lines are parallel to each other?



Ans: _____ // _____

23 Round off 39.896 to 1 decimal place.

Ans: _____

24 Find the value of $277 \div 4$. Give your answer as a decimal.

Ans: _____

25 Kevin is 36 years younger than his father. His father is 4 times as old as Kevin. How old is Kevin now?

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)

- 26 Insert a pair of brackets to make the number sentence below true.

$$80 \div 14 \div (2 + 1) - 3 = 7$$

- 27 Winston bought 5 copies of Book A and Simon bought 5 copies of Book B from a bookshop. The price of a Book A cost 3 times as much as a Book B. Winston paid \$60 more than Simon. Find the cost of one Book B.

Ans: \$ _____

- 28 Samy has more than 20 sweets but fewer than 40 sweets. The sweets can be packed into bags of 4 sweets without any remainder. The sweets can also be packed into bags of 6 sweets without any remainder. What is the most number of sweets that Samy has?

Ans: _____

- 29 A dining table set costs \$600 more than a sofa set. 5 dining table sets cost \$6600 more than 2 sofa sets. How much does each sofa set cost?

Ans: \$ _____

30 In the pattern below, which letter will appear in the 103rd position?



Ans: _____



**NANYANG PRIMARY SCHOOL
FIRST CONTINUAL EXAMINATION
2016
PRIMARY 5
MATHEMATICS
PAPER 2**

DURATION: 1 HOUR 40 MINUTES

Paper 2 Total	/ 60
GRAND TOTAL	/ 100

Name: _____ ()

Class: Primary 5 ()

Date: 3 March 2016

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

(10 marks)

- 1 Find the value of 8067×34 . Round off the answer to the nearest thousand.

Ans: _____

- 2 Mrs Shanti has 45 pupils in her class. $\frac{5}{9}$ of the pupils are boys. How many girls are there in the class?

Ans: _____

- 3 Tammy spent $\frac{5}{8}$ of her money and had \$36 left. How much money did she have at first?

Ans: \$ _____

- 4 The perimeter of a rectangle is 108 cm. Its length is twice as long as its breadth. Find its breadth.

Ans: _____ cm

- 5 Carol uses some unit squares to build some figures. The first three figures are shown below.

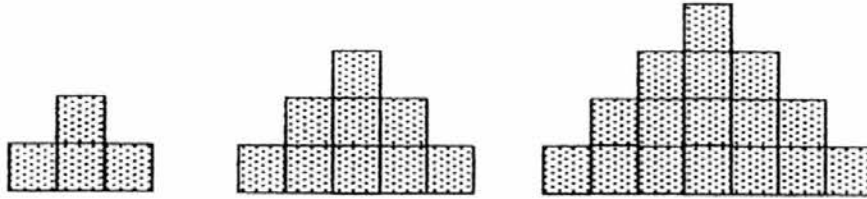


Figure 1

Figure 2

Figure 3

The table below shows the number of unit squares in each figure and the number of layers in each figure.

Figure	Number of layers	Number of unit squares
1	2	4
2	3	9
3	4	16
.	.	.
.	.	.
.	.	.
...	?	81

A figure has exactly 81 unit squares. How many layers are there in the figure?

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)

- 6 A magazine costs thrice as much as a newspaper. Judy pays \$3.30 for one magazine.
- (a) How much does the newspaper cost?
 - (b) Muthu wants to buy 2 such newspapers and 3 such magazines. How much does he have to pay?

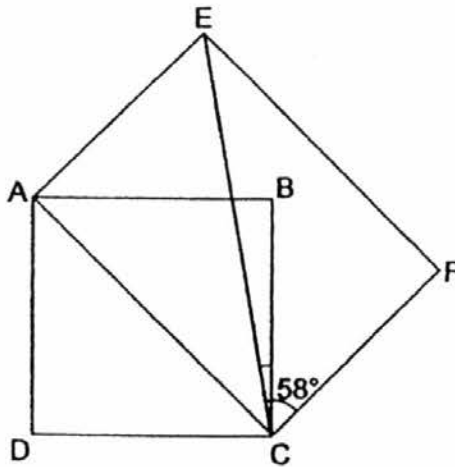
Ans: (a) _____ [1]

(b) _____ [2]

- 7 In a quiz, each participant had to answer 50 questions. For each question answered correctly, the participant was awarded 2 points. For each question answered wrongly, 1 point was deducted. Hassan scored 64 points in the quiz. How many questions did he answer wrongly?

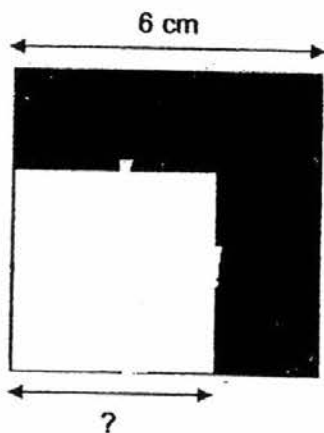
Ans: _____ [3]

- 8 In the figure below, ABCD is a square and AEFC is a rectangle. EC is a straight line and $\angle ECF = 58^\circ$. Find $\angle ECB$.



Ans: _____ [3]

- 9 The figure below is made up of 2 overlapping squares. The area of the shaded part is 20 cm^2 . The length of the bigger square is 6 cm . Find the length of the smaller square.



Ans: _____ [3]

- 10 There are four consecutive whole numbers. The product of the smallest number and the largest number is 180. Find the sum of the four numbers.

Ans: _____ [3]

- 11** Jia Hui had 90 kg of rice. She packed the rice equally into small packets. Each packet contained 3 kg of rice. She sold each packet for \$6.20
- (a) Jia Hui sold all the packets of rice. How much did she collect from the sale?
- (b) However, Jia Hui would like to collect \$258 from the sale. How much should she sell each 3-kg packet of rice for?

Ans: (a) _____ [2]

(b) _____ [2]

- 12 During a candy sale, Mrs Cheng paid \$2 less for every 15 candies she bought. Each candy cost 60 cents. Mrs Cheng paid a total of \$38 for some candies. How many candies did she buy?

Ans: _____ [4]

- 13 Jerry, Kumar and Lucas shared a bag of marbles. The number of marbles Kumar had was $\frac{1}{2}$ of the number of marbles Lucas had. Jerry had $\frac{1}{4}$ of the total number of marbles. Lucas had 36 more marbles than Jerry.

- (a) What fraction of the marbles did Lucas have?
(b) How many marbles were there altogether?

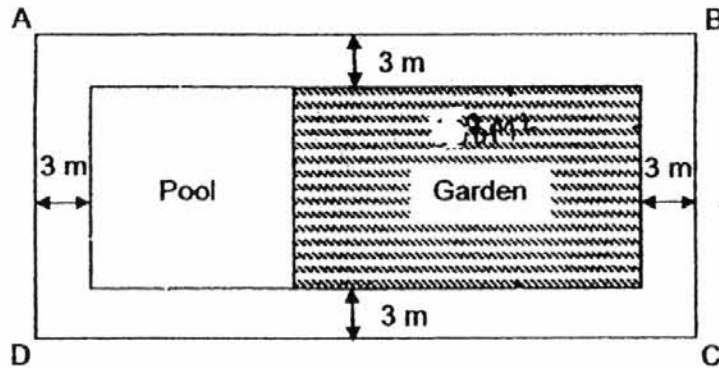
Ans: (a) _____ [1]

(b) _____ [3]

- 14 ABC Company paid for all her 96 employees to go for a holiday. The price of the holiday package for each person was \$428. The tour agency gave a concession to ABC Company. For every 4 persons, the fourth person would pay half of the price. How much money did ABC Company pay for all her 96 employees?

Ans: _____ [4]

- 15 Mr Chen owned a rectangular piece of land, ABCD, as shown in the figure below. A path of width 3 m was tiled around the pool and the garden. The area of the square pool was 196 m^2 and the area of rectangular garden was 308 m^2 . Find the area of the piece of land.



Ans: _____ [4]

16 Tze Kai had some money. He spent \$24 on files, $\frac{1}{3}$ of the money on books and $\frac{1}{9}$ of the money on stationeries. He saved the rest of the money. He saved \$16.

- (a) How much money did he have at first?
(b) What fraction of his money did he save?

Ans: (a) _____ [3]

(b) _____ [2]

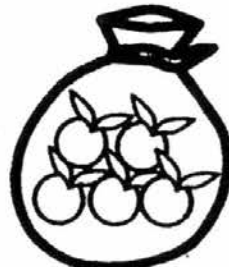
- 17 The total mass of 7 identical textbooks and 3 identical notebooks is 8492 g. The total mass of 3 such textbooks and 7 such notebooks is 5408 g. What is the mass of each textbook?

Ans: _____ [5]

- 18 Mr Lee bought 268 oranges. He packed the oranges into 3-orange packs and 5-orange packs. After packing all the oranges, he realised he had 12 more 5-orange packs than 3-orange packs. How many 5-orange packs were there?



3-orange pack



5-orange pack

Ans: _____ [5]

END OF PAPER

EXAM PAPER 2016
 LEVEL : PRIMARY 5
 SCHOOL : NANYANG PRIMARY SCHOOL
 SUBJECT : MATHEMATICS(PAPER 1)
 TERM : CA1

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

16. 6000

17. 16: 1×16
 2×8 → 1,2,4,8,16
 4×4

28: 1×28
 2×14 → 1,2,4,7,14,28
 4×7

ans: 1,2,4

18. $8\frac{2}{7} = \frac{58}{7}$

ans: $\frac{58}{7}$

19. $\frac{44}{6} = 7\frac{2}{6} = 7\frac{1}{3}$

ans: $7\frac{1}{3}$

20.

$$= \frac{11}{4} \times \frac{12}{1}$$

$$= \frac{11 \times 12}{4 \times 1}$$

$$= \frac{132}{4}$$

=33 ans:33

21.

$\angle DEF$ is less than 90°

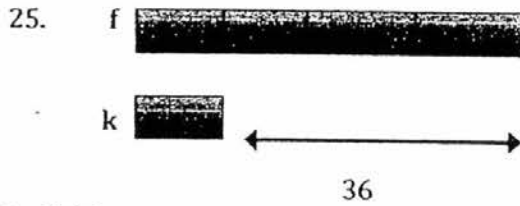
ans: 57°

22. ans: AB// EC

23. ≈ 39.9

ans: 39.9

24. ans: 69.25



$$3u \rightarrow 36$$

$$1u \rightarrow 36 \div 3 = 12$$

ans: 12 years old

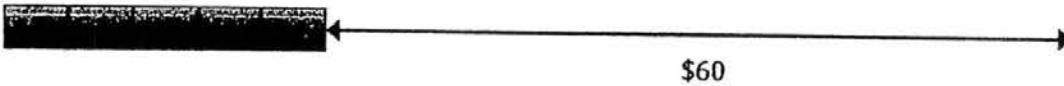
$$\begin{aligned} 26. &= 80 \div (7+1) - 3 \\ &= 80 \div 8 - 3 \\ &= 10 - 3 \\ &= 7 \end{aligned}$$

27.

w



s



$$10u \rightarrow \$60$$

$$1u \rightarrow \$60 \div 10 = \$6$$

ans: \$6

28. 4: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40

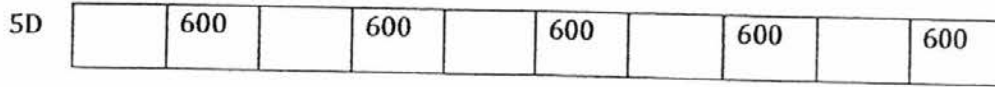
6: 6, 12, 18, 24, 30, 36, 42,

ans: 36

29.

D 

S 



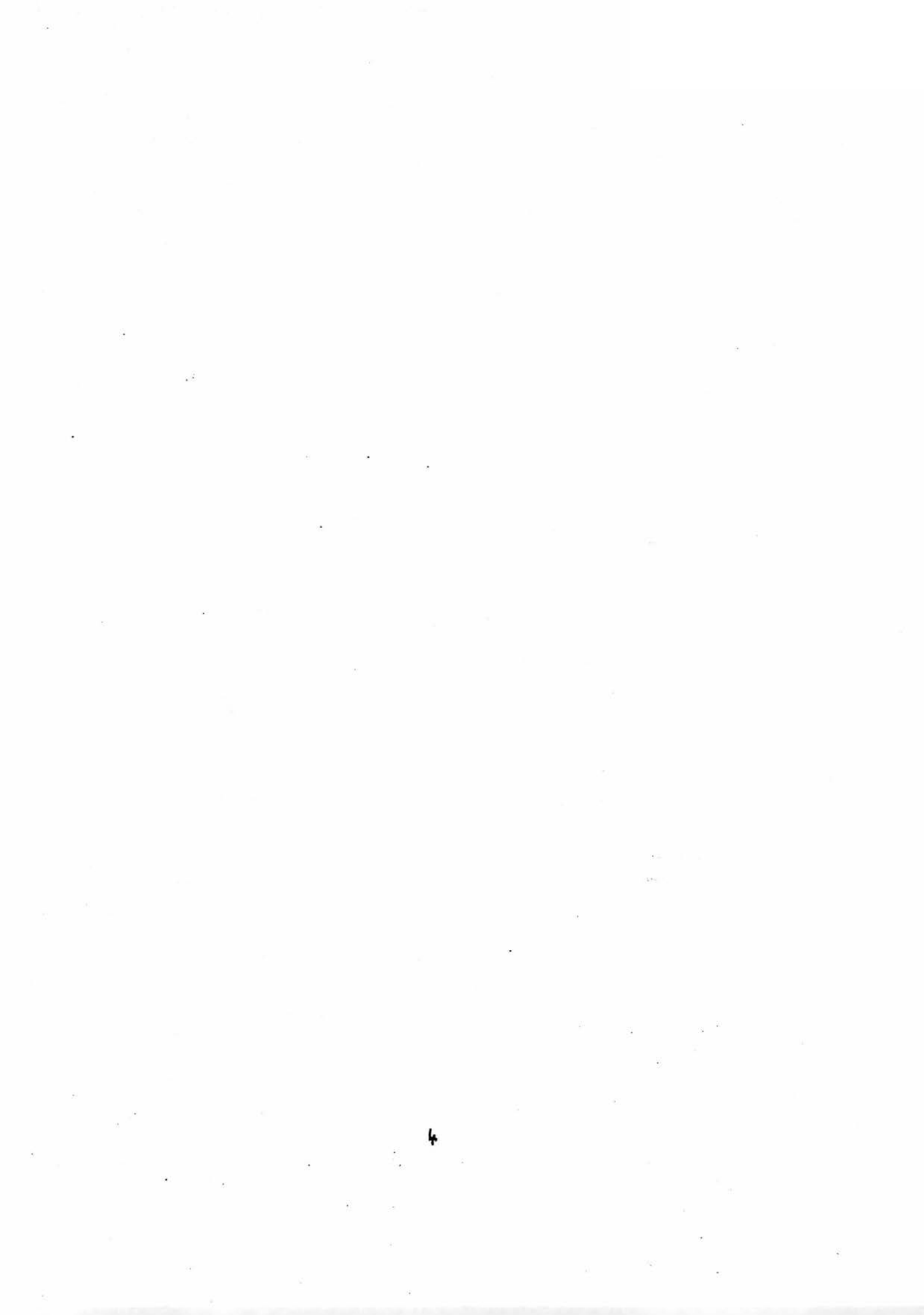
$$\begin{aligned}5u - 2u &= 3u \\3u + 3000 &\rightarrow 6600 \\3u &\rightarrow 6600 - 3000 = 3600 \\1u &\rightarrow 3600 \div 3 = 1200\end{aligned}$$

ans: \$1200

30.

$$103 \div 7 = 14 \text{ R } 5$$

ans: B



EXAM PAPER 2016

LEVEL : PRIMARY 5

SCHOOL : NANYANG PRIMARY SCHOOL

SUBJECT : MATHEMATICS(PAPER 2)

TERM : CA1

1. $8067 \times 34 = 274278$

$$274278 \approx 274000$$

ans:274000

2. $45 \div 9 = 5$

$$9 - 5 = 4$$

$$5 \times 4 = 20$$

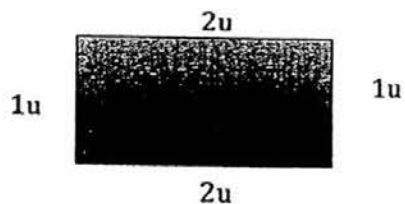
ans:20

3. $\frac{3}{8} \rightarrow \36

$$\frac{1}{8} \rightarrow \$36 \div 3 = \$12$$

$$\frac{8}{8} \rightarrow \$12 \times 8 = \$96 \text{ ans: } \$96$$

4.



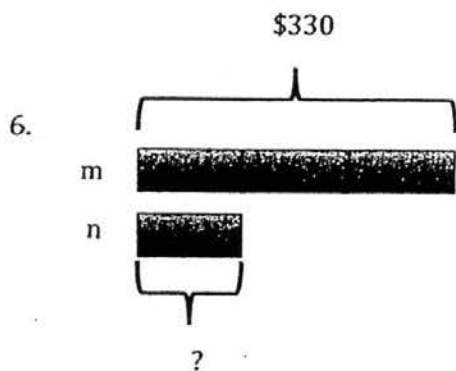
$$2u + 2u + 2u = 6u$$

$$108 \div 6 = 18$$

ans:18cm

5. $9 \times 9 = 81$

ans:9



$$\begin{aligned}
 3u &\rightarrow \$3.30 \\
 1u &\rightarrow \$3.30 \div 3 = \$1.10 \\
 9u + 2u &= 11u \\
 plu &\rightarrow \$1.10 \times 11 = \$12.10
 \end{aligned}$$

- a) ans: \$1.10
 b) ans: \$12.10

7.

$$\begin{aligned}
 50 \times 2 &= 100 \\
 100 - 64 &= 36 \\
 2 + 1 &= 3 \\
 36 \div 3 &= 12
 \end{aligned}$$

ans: 12

8.

$$\begin{aligned}
 90^\circ \div 2 &= 45^\circ \\
 58^\circ - 45^\circ &= 13^\circ
 \end{aligned}$$

ans: 13°

9. $6\text{cm} \times 6\text{cm} = 36\text{cm}^2$
 $36\text{cm}^2 - 20\text{cm}^2 = 16\text{cm}^2$

$$16\text{cm}^2 = (4 \times 4)$$

ans: 4cm

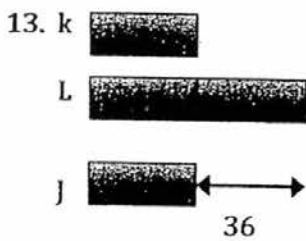
10. $12, 13, 14, 15$
 $12 \times 15 = 180$
 $12 + 13 + 14 + 15 = 54$

ans: 54

11. $90 \div 3 = 30$
 $30 \times \$6.20 = \186
 $\$258 \div 30 = \8.60

a) ans: \$186
 b) ans: \$8.60

12. 80



$1u \rightarrow 36$
 $\frac{2}{4} = \frac{1}{2}$
 $4u \rightarrow 36 \times 4 = 144$

a) ans: $\frac{1}{2}$

b) ans: 144

14. $96 \div 4 = 24$
 $\$428 \div 2 = \214
 $\$214 \times 24 = \5136
 $96 - 24 = 72$
 $72 \times \$428 = \30816
 $\$30816 + \$5136 = \$35952$

ans: \$35952

15.
 $196 = (14 \times 14)$
 $308 \div 14 = 22$
 $14 + 22 + 3 + 3 = 42$
 $14 + 3 + 3 = 20$
 $20 \times 42 = 840m^2$

ans: $840m^2$

12) $15 \times 60¢ = \$9$
 $\$9 - \$2 = \$7$
 Multiples of 7 $\rightarrow 7, 14, 21, 28, 35$

$15 \times 5 = 75$
 75 candies \rightarrow \$35

$\$38 - \$35 = \$3$
 $\$3.00 \div \$0.60 = 5$

$75 + 5 = 80$

16.

$$\frac{1}{3} = \frac{3}{9}$$

$$\frac{3}{9} + \frac{1}{9} = \frac{4}{9}$$

$$1 - \frac{4}{9} = \frac{5}{9}$$

$$5u \rightarrow \$16 + \$24 = \$40$$

$$1u \rightarrow \$40 \div 5 = \$8$$

$$9u \rightarrow \$8 \times 9 = \$72$$

$$3u \rightarrow \$8 \times 3 = \$24$$

$$\frac{5}{9} - \frac{3}{9} = \frac{2}{9}$$

a) ans: \$72

b) ans: $\frac{2}{9}$

17.

$$7T + 3N \rightarrow 8492$$

$$3T + 7N \rightarrow 5408$$

$$10T + 10N \rightarrow 8492 + 5408 = 13900$$

$$1T + 1N \rightarrow 13900 \div 10 = 1390$$

$$3T + 3N \rightarrow 1390 \times 3 = 4170$$

$$4T \rightarrow 8492 - 4170 = 4322$$

$$1T \rightarrow 4322 \div 4 = 1080.5$$

ans: 108.5g

18. 38

12 more

No. of 3 Orange-packs	Total oranges in 3-orange packs	No. of 5 orange-packs	Total oranges in 5-orange packs	Total
20	$20 \times 3 = 60$	32	$32 \times 5 = 160$	$60 + 160 = 220$
21	$21 \times 3 = 63$	33	$33 \times 5 = 165$	$63 + 165 = 228$
26	$26 \times 3 = 78$	38	$38 \times 5 = 190$	$78 + 190 = 268$

X
X
✓

+8

$$268 - 228 = 40$$

$$40 \div 8 = 5$$

- & END -