



**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2018
PRIMARY 5**

**MATHEMATICS
PAPER 1
(BOOKLET A)**

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. The use of calculators is **NOT** allowed.

Name : _____ ()

Class : 5 _____

Date : 2 Nov 2018

Parent's Signature : _____

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) and shade your answer on the Optical Answer Sheet.
(20 marks)

1. In 3 472 169, which digit is in the hundred thousands place?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

2. 517 000 is the same as _____ tens.

- (1) 517
- (2) 5170
- (3) 51 700
- (4) 517 000

3. What is the product of 500 and 2000?

- (1) 10 000
- (2) 100 000
- (3) 1 000 000
- (4) 10 000 000

4. What is the value of $48 \div 8 - (6 - 4) \times 2$?

- (1) 8
- (2) 2
- (3) 12
- (4) 16

5. What is the value of $\frac{3}{5} \times \frac{2}{9}$?

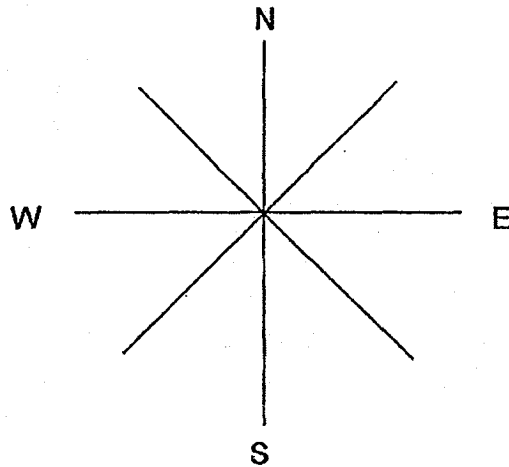
- (1) $\frac{2}{15}$
- (2) $\frac{5}{14}$
- (3) $\frac{27}{10}$
- (4) $\frac{37}{45}$

6. Express $\frac{36}{50}$ as a decimal.

- (1) 3.6
- (2) 7.2
- (3) 0.36
- (4) 0.72

7. After making a $\frac{3}{4}$ turn clockwise, John is facing South-West.

Which direction is John facing at first?

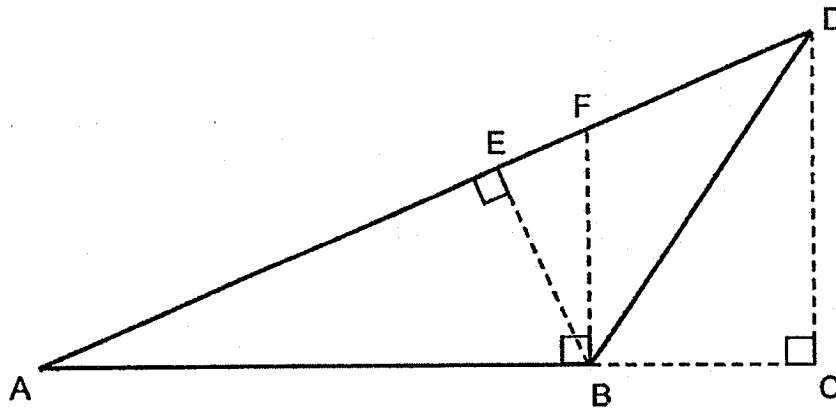


- (1) East
(2) North
(3) North-West
(4) South-East
8. Mrs Tay bought $\frac{7}{10}$ kg of meat from the market. She cooked $\frac{1}{2}$ kg of the meat and kept the rest. How much meat did she keep?

- (1) $\frac{1}{5}$ kg
(2) $\frac{3}{5}$ kg
(3) $\frac{12}{10}$ kg
(4) $\frac{7}{20}$ kg

9. In the figure below, ABD is a triangle.

Given that AB is the base, which one of the following is the height?



- (1) BD
- (2) BE
- (3) BF
- (4) CD

10. Mrs Lim bought 40 apples. Her family ate $\frac{2}{5}$ of the apples.

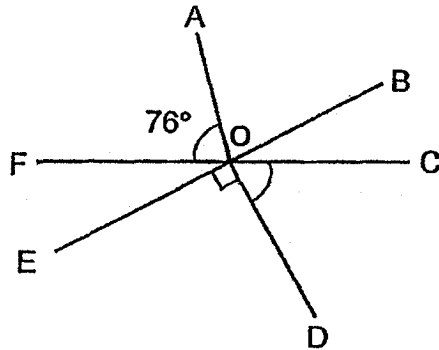
How many apples were left?

- (1) 12
- (2) 16
- (3) 24
- (4) 38

11. There are a total of 75 red and green balls in a jar. 60% of the balls are red. How many green balls are there in the jar?

- (1) 15
- (2) 30
- (3) 40
- (4) 45

12. In the figure, BE and CF are straight lines. $\angle AOF = \angle AOB$. Find $\angle COD$.



- (1) 14°
- (2) 28°
- (3) 62°
- (4) 76°

13. The rate for parcel postage at a post office is shown in the table below.

Mass step not over	100 g	250 g	500 g	Every additional 100 g
Postage	\$2.50	\$3.90	\$5.20	\$1

Alice posted a parcel that weighed 860g. How much did she pay for the postage?

- (1) \$8.20
 - (2) \$9.20
 - (3) \$12.60
 - (4) \$22.50
14. The first 16 numbers of a number pattern are given below.

3 , 0 , 1 , 1 , 3 , 3 , 0 , 1 , 1 , 3 , 3 , 0 , 1 , 1 , 3 , 3 , ...
1st 16th

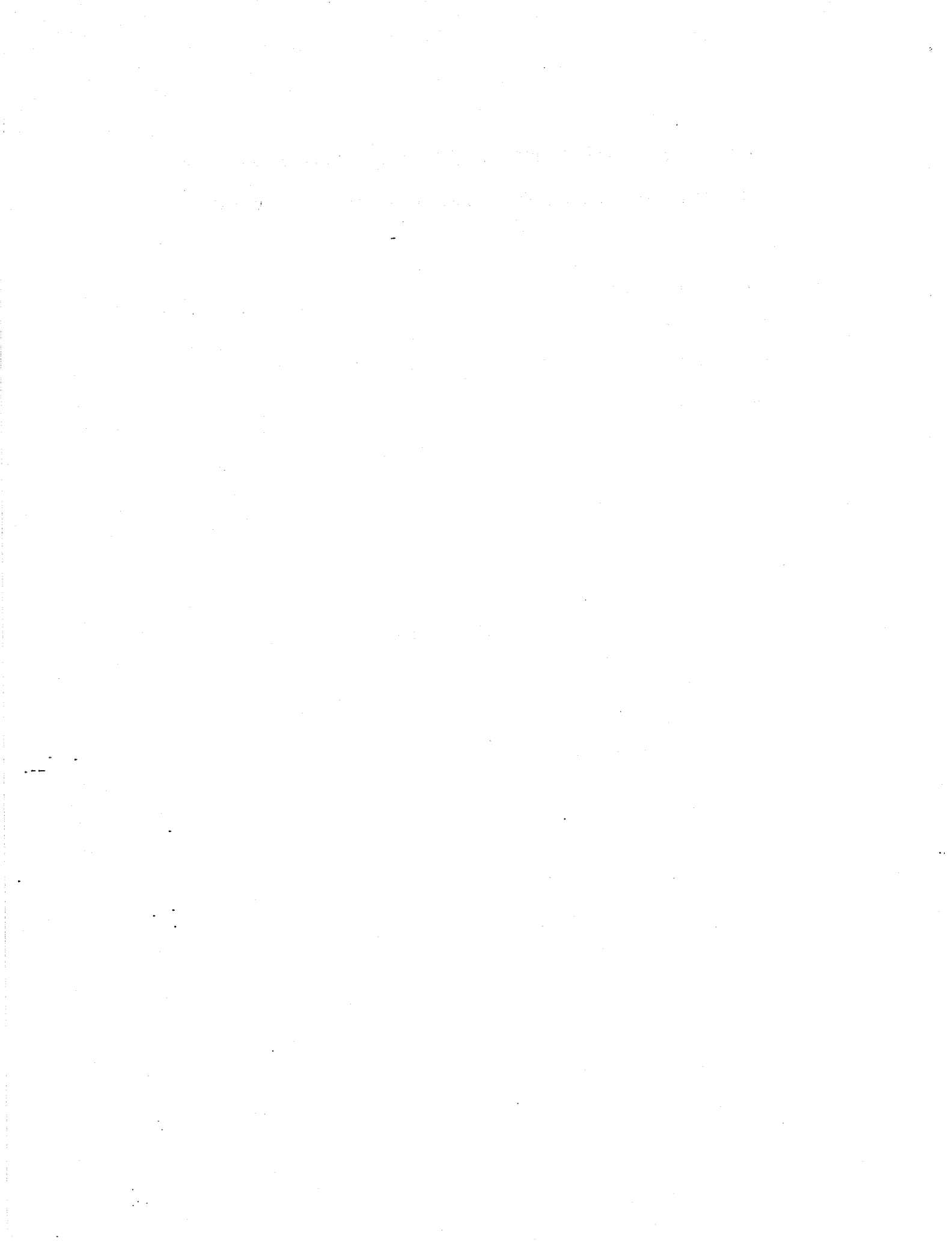
What is the sum of the first 48 numbers?

- (1) 60
- (2) 76
- (3) 81
- (4) 96

15. Caili spent $\frac{1}{2}$ h doing her homework. She spent $\frac{1}{6}$ h less than Aini on her homework. How much time did Aini take to complete her homework?

- (1) 10 min
- (2) 20 min
- (3) 30 min
- (4) 40 min

End of Booklet A





**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2018
PRIMARY 5**

**MATHEMATICS
PAPER 1
(BOOKLET B)**

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of calculators is **NOT** allowed.

Marks Obtained

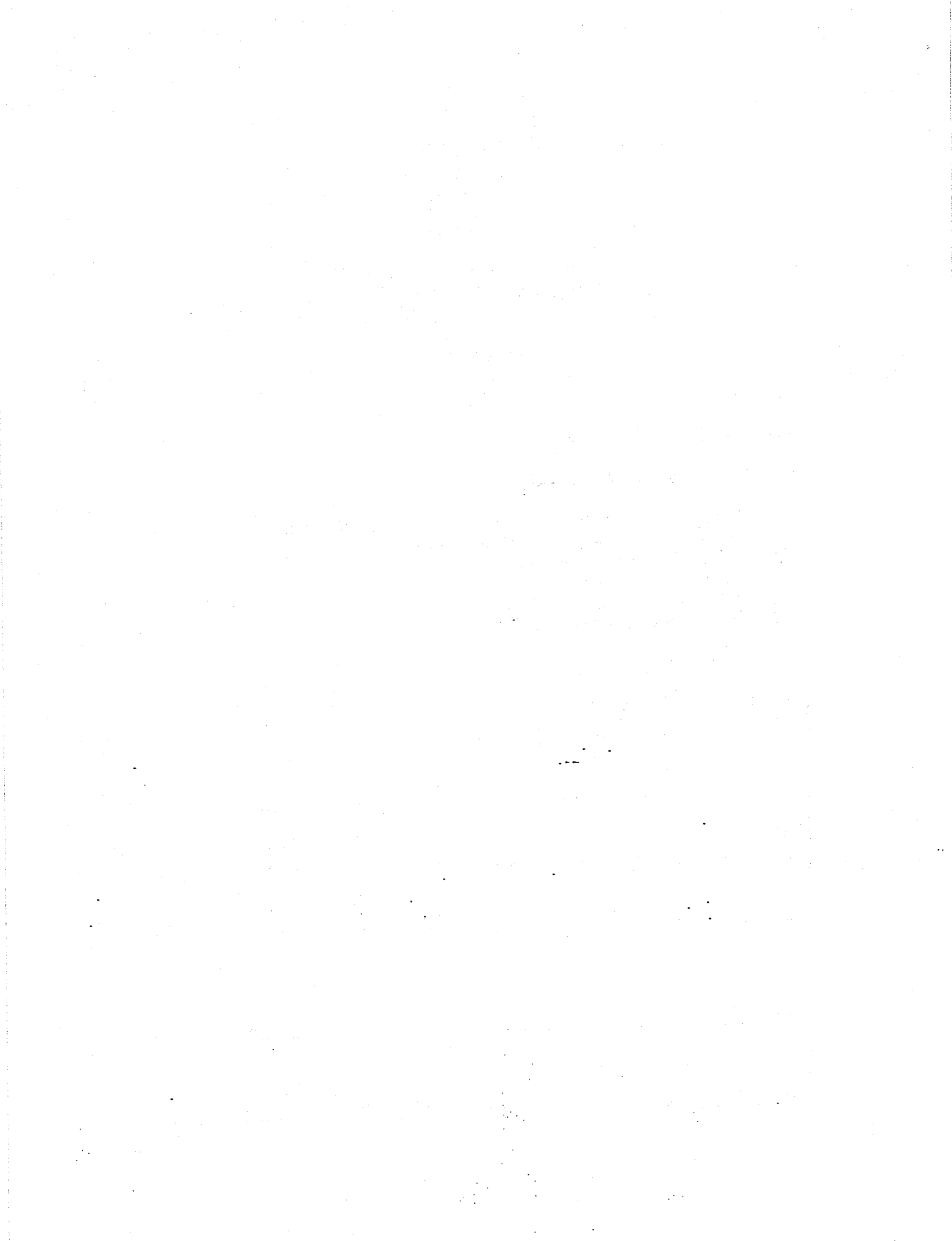
Paper 1	Booklet A		/ 45
	Booklet B		
Paper 2			/ 55
Total			/ 100

Name : _____ ()

Class : 5 _____

Date : 2 Nov 2018

Parent's Signature : _____



Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

16. Write one million, six hundred and forty thousand and thirteen in numerals.

Ans: _____

17. A file cost \$1.20. A school bought 800 files for the students. How much did the school pay for the files?

Ans: \$ _____

18. By rounding each of the numbers to the nearest whole number, estimate the value of:

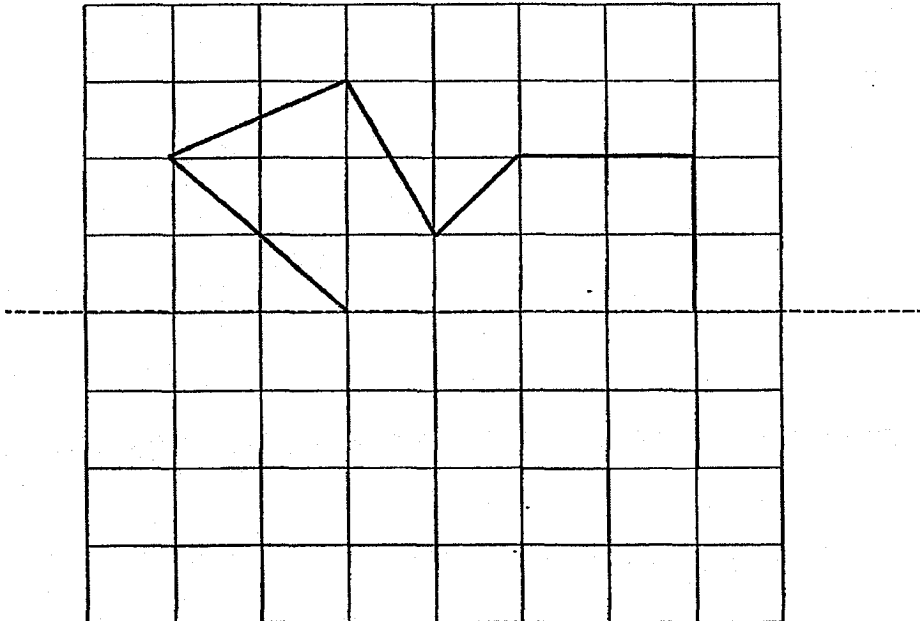
$$37.8 + 79.6 \times 10.3$$

Ans: _____

19. Find the value of $50 \div 3$. Express your answer as a mixed number in its simplest form.

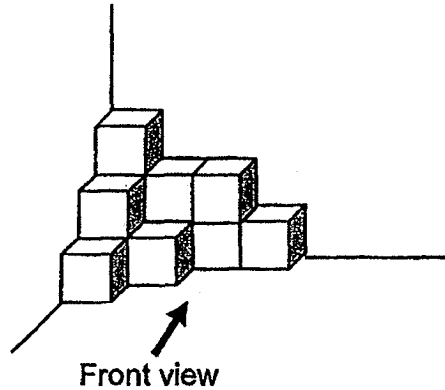
Ans: _____

20. Complete the diagram below to form a symmetric figure. The dotted line is the line of symmetry.



Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

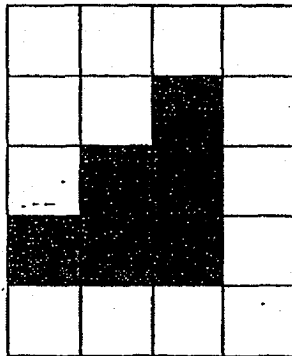
21. The solid below is made up of 1-cm cubes.



Look at the figures below and identify the views for the solid.

Put a tick (✓) next to the correct answer.

(a)

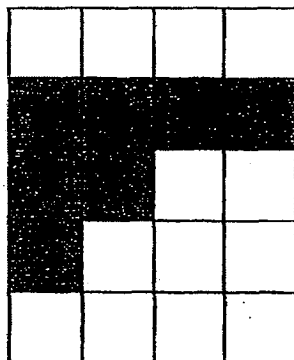


Top view

Front view

Side view

(b)

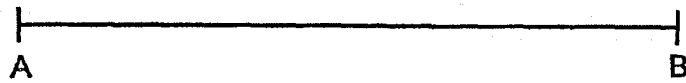


Top view

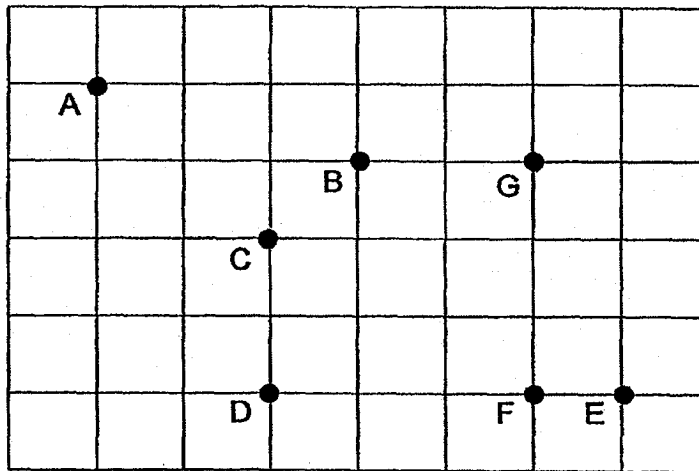
Front view

Side view

22. Using the given line, draw and label $\angle ABC = 72^\circ$



23.



In the square grid above,

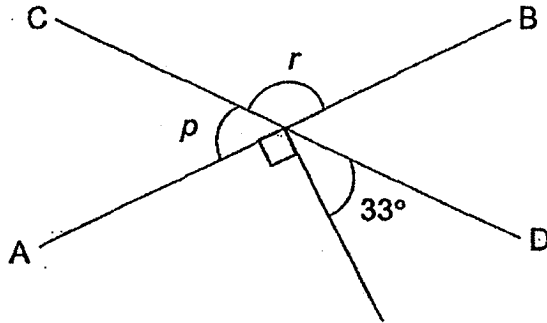
(a) point C is south-west of point _____

(b) point _____ is east of point F.

24. In the figure, AB and CD are straight lines.

(a) Find $\angle p$.

(b) Find $\angle r$.



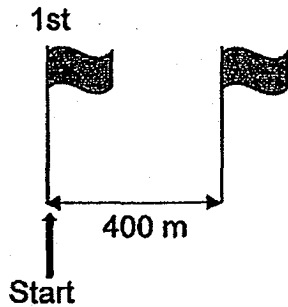
Ans: (a) _____ °

(b) _____ °

25. The average of two different 2-digit numbers is 43. What is the greatest possible difference between the two numbers?

Ans: _____

26. At a Fun Run, one flag pole was placed at the starting point and one at the ending point. Flag poles were also placed at every 400 m along the route. A total of 12 flag poles were used. What was the length of the route?
Express your answer as a decimal in kilometres.



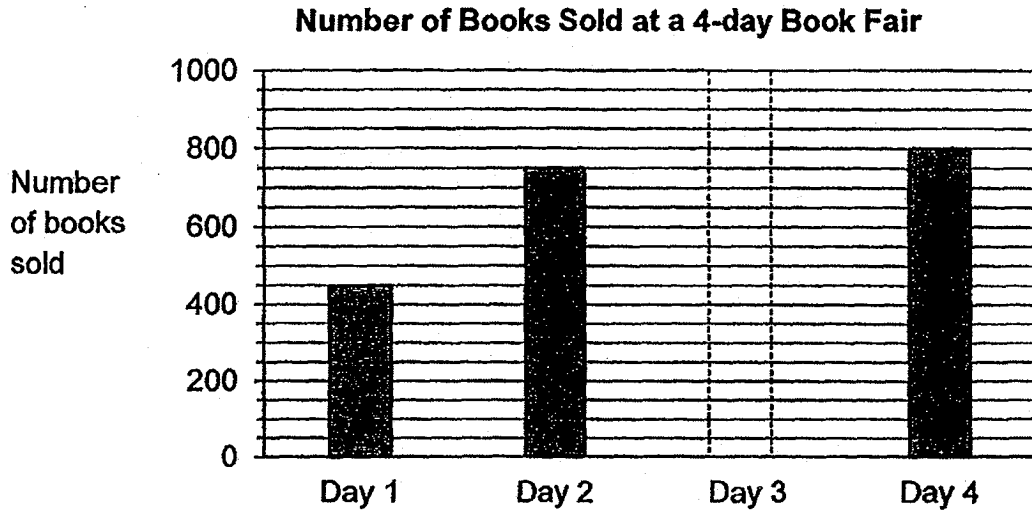
Ans: _____ km

27. Sharon is reading a book with 600 pages. She reads 240 pages in 8 days. At this rate, how many days will Sharon take to read the remaining pages?

Ans: _____

Study the bar graph below and answer questions 28 and 29.

The bar graph shows the number of books sold at a book fair over 4 days.



28. $\frac{1}{5}$ of the books were sold on Day 3. Find the number of books sold on Day 3.

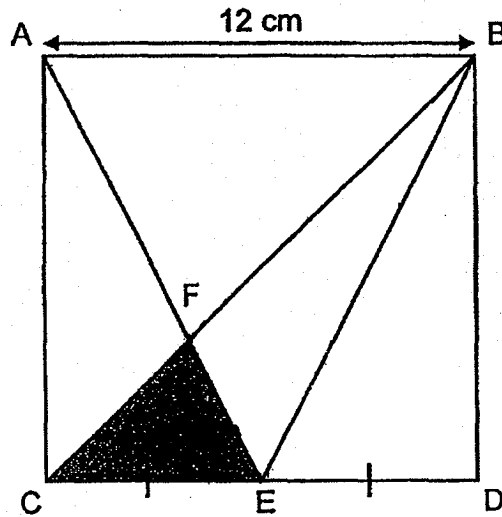
Ans: _____

29. (a) How many more books were sold on Day 4 than Day 1?
(b) Each book cost \$3 at the fair. How much was collected on Day 2?

Ans: a) _____

b) \$ _____

30. In the figure, $ABDC$ is a square with sides 12 cm . $CE = ED$. The area of $AFBEC$ is 60 cm^2 . Find the area of the shaded triangle CFE .



Ans: _____ cm^2

End of Booklet B



**NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2018
PRIMARY 5**

**MATHEMATICS
Paper 2**

Total Time for Paper 2: 1 hour 30 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions.
5. Write your answers in this booklet.
6. The use of an approved calculator is expected, where appropriate.

Marks Obtained

Total	Max Mark
	55

Name : _____ ()

Class : 5 _____

Date : 2 Nov 2018

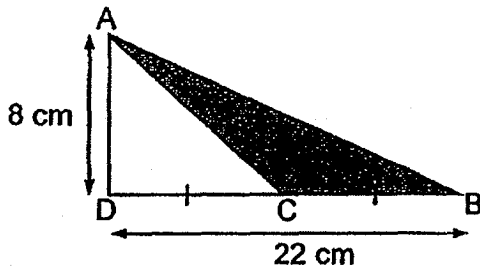
Parent's Signature : _____

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

(10 marks)

Do not write
in this space

1. In the figure below not drawn to scale, DCB is a straight line and $DC = CB$. What is the area of the shaded triangle?



Ans: _____ cm^2

2. Diana bought 28 identical pens which cost \$1.60 each. She then had \$12.50 left. How much money did she have at first?

Ans: \$ _____



3. 287 pupils and 12 teachers are out on a learning journey. What is the least number of buses needed if each bus can take a maximum of 30 passengers?

Do not write
in this space

Ans: _____

4. A candy machine makes lollipops at a rate of 28 pieces every 3 minutes. How many lollipops can it make in one hour?

Ans: _____

5. Megan is 11 years old and her brother is 3 years old. In how many years' time will their total age be 48 years old?

Ans: _____

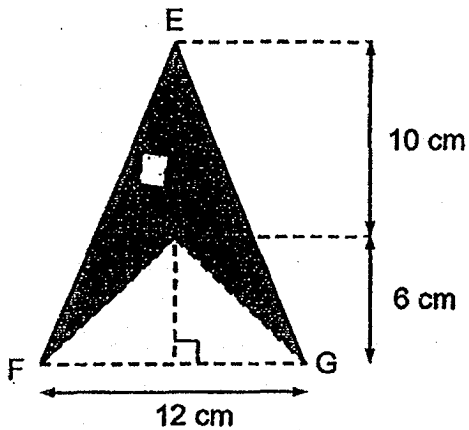


For questions 6 to 17, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.

(45 marks)

Do not write
in this space

6. In the figure below not drawn to scale, triangle FHG is cut out from triangle FEG. What is the area of the shaded part?



Ans: _____ [3]

7. Mrs Tan paid \$151.20 for an equal number of pens and keychains. Each pen cost \$1.20. Each keychain cost \$1.80 more than a pen. How many pens did she buy?

Ans: _____ [3]



8. Nicholas planned to buy 3 mangoes and 5 apples which cost \$14.20 altogether. However, he changed his mind and bought 6 mangoes and 7 apples instead. He paid \$25.10 for the fruits. How much did an apple cost?

Do not write
in this space

Ans: _____ [3]

9. The table below shows the charges for the entrance tickets to the Singapore Zoo.

	Price of ticket
Adult	\$35
Child	\$23

A tour group of 65 people paid a total of \$2047 to visit the Singapore Zoo. How many children were there in the tour group?

Ans: _____ [3]



10. The average height of 2 boys is 1.52 m. If 2 boys whose heights are 1.56 m and 1.6 m join the group, what is the new average height of all the boys?

Do not write
in this space

Ans: _____ [3]

11. The original price of a television is \$1350. Mr Lim bought the television at a discount of 20%. In addition, he had to pay 7% GST on the discounted price.

(a) How much was the discount?

(b) How much did Mr Lim pay for the television including GST ?

Ans: a) _____ [1]

b) _____ [3]



12. There are some pupils who will be performing at a Charity Concert. The ratio of the number of pupils singing to the number of pupils playing musical instruments to the number of pupils dancing is 8 : 5 : 3.

- (a) If there are 21 pupils dancing, how many pupils in total will be performing for the Charity Concert?
- (b) How many more pupils will be singing than dancing for the Charity Concert?

Do not write
in this space

Ans: a) _____ [3]

b) _____ [1]

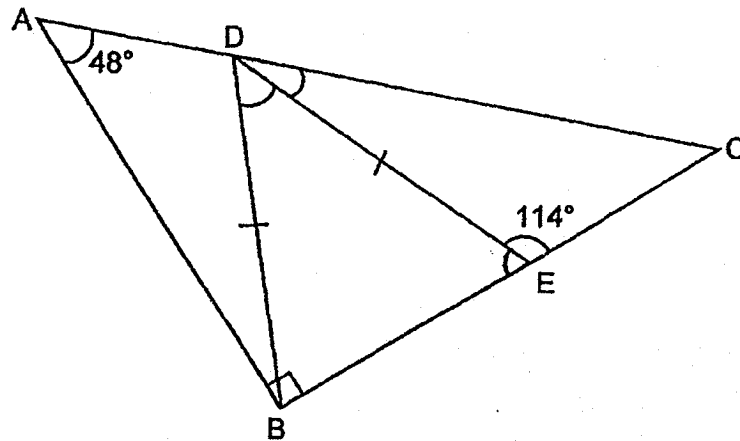


13. The figure below is not drawn to scale. $\angle ABC$ is a right-angled triangle.
 $BD = DE$. Find

Do not write
 in this space

(a) $\angle BDE$

(b) $\angle EDC$



Ans: a) _____ [2]

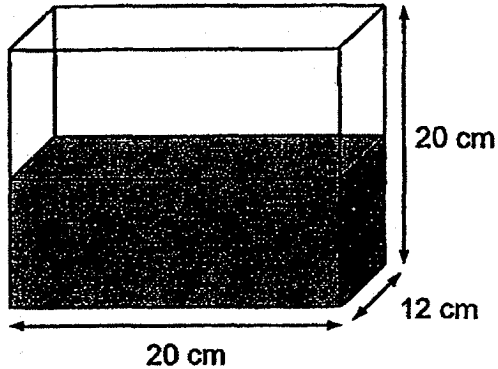
b) _____ [2]



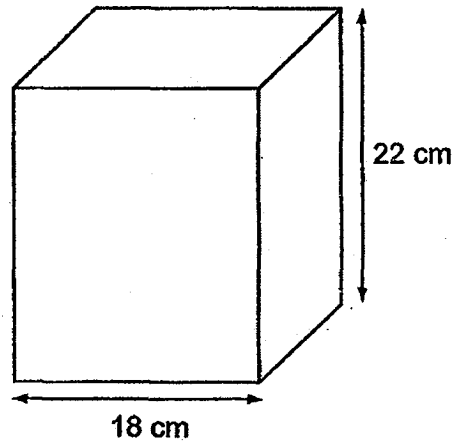
14. Tank A measuring 20 cm long 12 cm wide and 20 cm high was $\frac{1}{2}$ filled with water. All the water in Tank A was then poured into Tank B with a square base of side 18 cm and a height of 22 cm.

Do not write
in this space

- (a) How much water was there in Tank A at first? Give your answer in millilitres.
- (b) After all the water in Tank A had been poured into Tank B, how much more water is required to fill Tank B to the brim? Give your answer in millilitres.



Tank A



Tank B

Ans: a) _____ [2]

b) _____ [2]



15. Alice, Betsy and Cheryl shared some stickers. The ratio of the number of stickers Alice had to the total number of stickers Betsy and Cheryl had was 6 : 5. Alice had twice the number of stickers Betsy had and 24 more stickers than Cheryl.

Do not write
in this space

- (a) What is the ratio of the number of stickers Alice had to the number of stickers Betsy had to the number of stickers Cheryl had?
- (b) How many stickers did they have altogether?





Ans: a) _____ [1]

b) _____ [3]



16. Some triangles and dots are used to form the patterns below.

Do not write
in this space

			
Pattern 1	Pattern 2	Pattern 3	Pattern 4

- (a) What is the number of dots in Pattern 5?
- (b) What is the number of triangles in Pattern 12?
- (c) What is the total number of triangles and dots in Pattern 20?

Ans: a) _____ [1]

b) _____ [1]

c) _____ [3]



17. Mr Tan baked 48 more chocolate cupcakes than blueberry cupcakes.
After he sold $\frac{1}{4}$ of the chocolate cupcakes and $\frac{1}{2}$ of the blueberry cupcakes,
he had 211 chocolate and blueberry cupcakes left altogether.

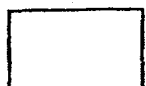
Do not write
in this space

- a) How many chocolate and blueberry cupcakes did he sell altogether?
- b) How many chocolate cupcakes did Mr Tan bake at first?

Ans: a) _____ [3]

b) _____ [2]

--- End of Paper 2 ---



SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
4	3	3	2	1	4	3	1	4	3

Q11	Q12	Q13	Q14	Q15
2	3	2	2	4

PAPER 1 BOOKLET B

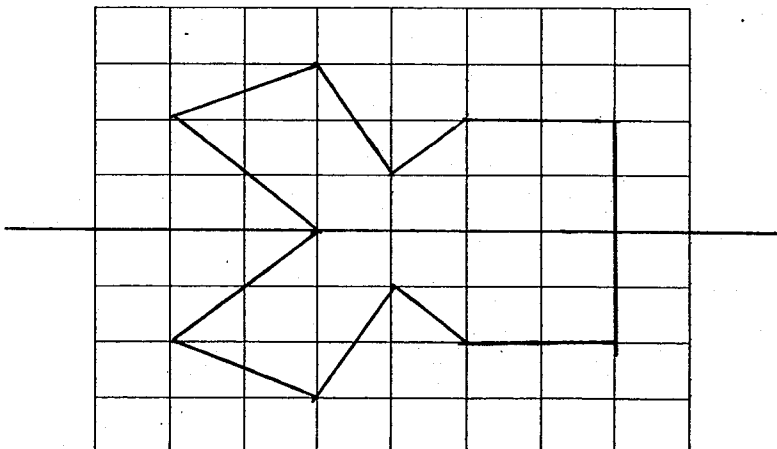
Q16) 1640013

Q17) $\$1.20 \times 800$
 $= \$1.20 \times 8 \times 100$
 $= \$9.60 \times 100 = \960

Q18) $38 + 80 \times 10$
 $= 38 + 800$
 $= 838$

Q19) $50 \div 3 = 50/1 \times 1/3$
 $= 16\frac{2}{3}$

Q20)



Q21)	a) Side view b) Top view
Q22)	
Q23)	a) B b) E
Q24)	$90^\circ + 33^\circ = 123^\circ$ $123^\circ \times 2 = 246^\circ$ $360^\circ - 246^\circ = 114^\circ$ $114^\circ \div 2 = 57^\circ$ b) $90^\circ + 33^\circ = 123^\circ$
Q25)	$43 \times 2 = 86$ 10 (one of the number) $86 - 10 = 76$ (the other no.) $76 - 10 = 66$
Q26)	$12 - 1 = 11$ gaps 1 gap \rightarrow 400m 11 gaps \rightarrow $400\text{m} \times 11 = 4400\text{m}$ $= 4.4 \text{ km}$
Q27)	240p \rightarrow 8 days 30p \rightarrow $8 \div 8 = 1$ day 360p \rightarrow 1 day $\times 12 = 12$ days $600 - 240 = 360$ $360 \div 30 = 12$ days
Q28)	$800 + 750 + 450 = 2000$ 4/5 of the books = 2000 $2000 \div 4 = 500$ books
Q29)	a) $800 - 450 = 350$ b) $750 \times \$3 = \2250
Q30)	$\frac{1}{2} \times 6\text{cm} \times 12\text{cm} = 36\text{cm}^2$ $\frac{1}{2} \times 6\text{cm} \times 12\text{cm} = 36\text{cm}^2$ $36\text{cm}^2 + 36\text{cm}^2 = 72\text{cm}^2$ $72\text{cm}^2 - 60\text{cm}^2 = 12\text{cm}^2$

Q1)	$22\text{cm} \div 2 = 11\text{cm}$ $\frac{1}{2} \times 11\text{cm} \times 8\text{cm} = 44\text{ cm}^2$
Q2)	$\$1.60 \times 28 = \44.80 $\$44.80 + \$12.50 = \$57.30$
Q3)	$287 + 12 = 299$ $299 \div 30 = 9\text{R } 30$ $9 + 1 = 10$
Q4)	$1\text{ hour} = 60\text{ min}$ $3\text{min} \rightarrow 28\text{L}$ $60\text{ min} \rightarrow 28 \times 20 = 560\text{L}$
Q5)	$11 + 3 = 14$ (total age now) $14 + 2 = 16$ (1 year later) $14 + 14 = 28$ (7 years later) $48 - 14 = 34$ $34 \div 2 = 17$ years' time
Q6)	$10\text{cm} + 6\text{cm} = 16\text{cm}$ $\frac{1}{2} \times 16\text{cm} \times 12\text{cm} = 96\text{cm}^2$ $\frac{1}{2} \times 6\text{cm} \times 12\text{cm} = 36\text{cm}^2$ $96\text{ cm}^2 - 36\text{ cm}^2 = 60\text{ cm}^2$
Q7)	$\$1.80 + \$1.20 = \$3$ (1 cost of keychain) $\$3 + \$1.20 = \$4.20$ $\$151.20 \div \$4.20 = 36$
Q8)	$3\text{M} + 5\text{A} = \14.20 $6\text{M} + 7\text{A} = \25.10 $6\text{M} + 10\text{A} = \$14.20 \times 2 = \$28.40$ $3\text{A} = \$28.40 - \$25.10 = \$3.30$ $1\text{A} = \$3.30 \div 3 = \1.10
Q9)	$65 \times \$35 = \2275 $\$2275 - \$2047 = \$228$ $\$35 - \$23 = \$12$ $\$228 \div 12 = 19$
Q10)	$1.52\text{m} \times 2 = 3.04\text{m}$ $3.04\text{m} + 1.6\text{m} = 4.64\text{m}$ $4.64\text{m} + 1.565\text{m} = 6.2\text{m}$ $6.2\text{m} \div 4 = 1.55\text{m}$
Q11)	a) $20\% \times \$1350 = \270 b) $100\% - 20\% = 80\%$ $80\% \times \$1350 = \1080 (discounted price) $100\% + 7\% = 107\%$ $107\% \times \$1080 = \1155.60
Q12)	a) S : M : D : total 8 : 5 : 3 : 16 56 : 35 : 21 : 112 b) $56 - 21 = 35$

Q13) a) $180^\circ - 114^\circ = 66^\circ$

$$66^\circ \times 2 = 132^\circ$$

$$180^\circ - 132^\circ = 48^\circ$$

b) $90^\circ - 66^\circ = 24^\circ$

$$24^\circ + 48^\circ = 72^\circ$$

$$180^\circ - 72^\circ = 108^\circ$$

$$108^\circ + 48^\circ = 156^\circ$$

$$180^\circ - 156^\circ = 24^\circ$$

Q14) a) $20\text{cm} \times 20\text{cm} \times 12\text{cm} = 4800\text{cm}^3$
 $= 4800\text{ml}$

$$4800\text{ml} \div 2 = 2400\text{ml}$$

b) $22\text{cm} \times 18\text{cm} \times 18\text{cm} = 7128\text{cm}^3$
 $= 7128\text{ml}$

$$7128\text{ml} - 2400\text{ml} = 4728\text{ml}$$

Q15) a) $6 : 3 : 2$

b) $6u - 2u = 4u$

$$4u = 24$$

$$1u = 24 \div 4 = 6$$

$$11u = 6 \times 11 = 66$$

Q16) a) no. of dots \rightarrow in 12

$$5n + 2 = 7$$

b) $12 = n$

$$2n + 2 = 2 \times 12 + 2$$

$$= 24 + 2 = 26$$

c) $n = 20$

$$\text{no. of dots} = 20 + 2 = 22$$

$$\text{no of } \triangle = 2 \times 20 + 2 = 42$$

$$42 + 22 = 64$$

Q17) a) $5u + 36 = 211$

$$5u = 211 - 36 = 175$$

$$1u = 175 \div 5 = 35$$

$$3u = 35 \times 3 = 105$$

$$\text{Sold} \rightarrow 105 + 12 = 117$$

b) $4u = 35 \times 4 = 140$

$$140 + 48 = 188$$