NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2019
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 : 30 October 2019 **Parent's Signature :** _____

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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 (OAS)

(20 marks)

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

$$\frac{5}{4} \quad , \quad 1\frac{1}{6} \quad , \quad \frac{10}{9}$$

	smallest				largest
(1)	$\frac{5}{4}$	,	$\frac{10}{9}$	,	$1\frac{1}{6}$
(2)	$\frac{10}{9}$	,	$\frac{5}{4}$	,	$1\frac{1}{6}$
(3)	$\frac{10}{9}$	,	$1\frac{1}{6}$	,	$\frac{5}{4}$
(4)	$1\frac{1}{6}$	,	$\frac{10}{9}$	,	$\frac{5}{4}$

(

2. 30.303 is the same as

(1) $3 + \frac{3}{10} + \frac{3}{1000}$

(2) $30 + \frac{3}{10} + \frac{3}{100}$

(3) $3 + \frac{3}{100} + \frac{3}{1000}$

(4) $30 + \frac{3}{10} + \frac{3}{1000}$ (

3. Find the value of $100 - 50 + (2 + 3) \times 2$.

(1) 5
(2) 20
(3) 80
(4) 95 (

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4. How many common factors do 16 and 40 have?

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

5. In a class of 33 students, 14 of them are girls. Find the ratio of the number of boys to the total number of students.

(1) 19 : 33
(2) 14 : 33
(3) 19 : 14
(4) 14 : 19 ( )

6. The table below shows the number of students who wear spectacles in a club.

	Female	Male	Total
Wear spectacles	9	21	30
Do not wear spectacles	11	9	20
Total	20	30	50

What percentage of the students are girls who wear spectacles?

(1) 18%
(2) 30%
(3) 40%
(4) 45% ( )

7. Bala watched a movie on television that lasted for 1 h 45 min. The movie ended at 11.05 p.m. What time did the movie start?

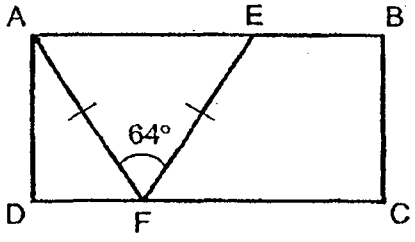
(1) 00 50
(2) 09 20
(3) 12 50
(4) 21 20 ( )

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8. What is 19.651 when rounded to the nearest tenth?

(1) 19.600
(2) 19.65
(3) 19.7
(4) 20

9. In the figure, ABCD is a rectangle. AF = EF. ∠AFE = 64°. Find ∠DAF.



(1) 26°
(2) 32°
(3) 45°
(4) 58°

10. The table shows the postage rates for sending packages to Malaysia.

Mass step not over	Postage
100 g	$2.50
250 g	$3.90
500 g	$5.20
Every additional 100 g	$1.10

How much does it cost to send a package of 450 g to Malaysia?

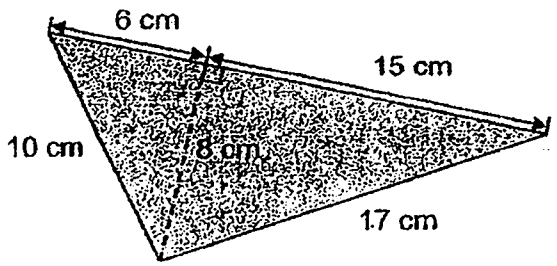
(1) $5.20
(2) $6.10
(3) $8.90
(4) $11.25

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11. What is the value of 20 ÷ 500?

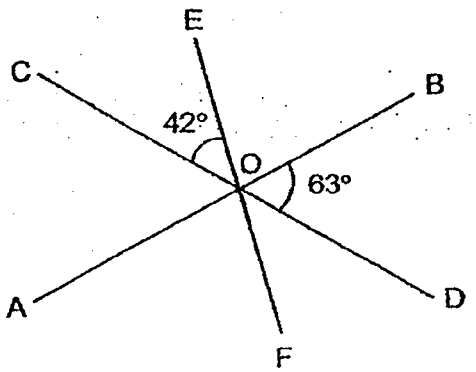
(1) 0.004
(2) 0.04
(3) 2.5
(4) 25 ( )

12. Find the area of the triangle.



(1) 84 cm²
(2) 85 cm²
(3) 105 cm²
(4) 168 cm² ( )

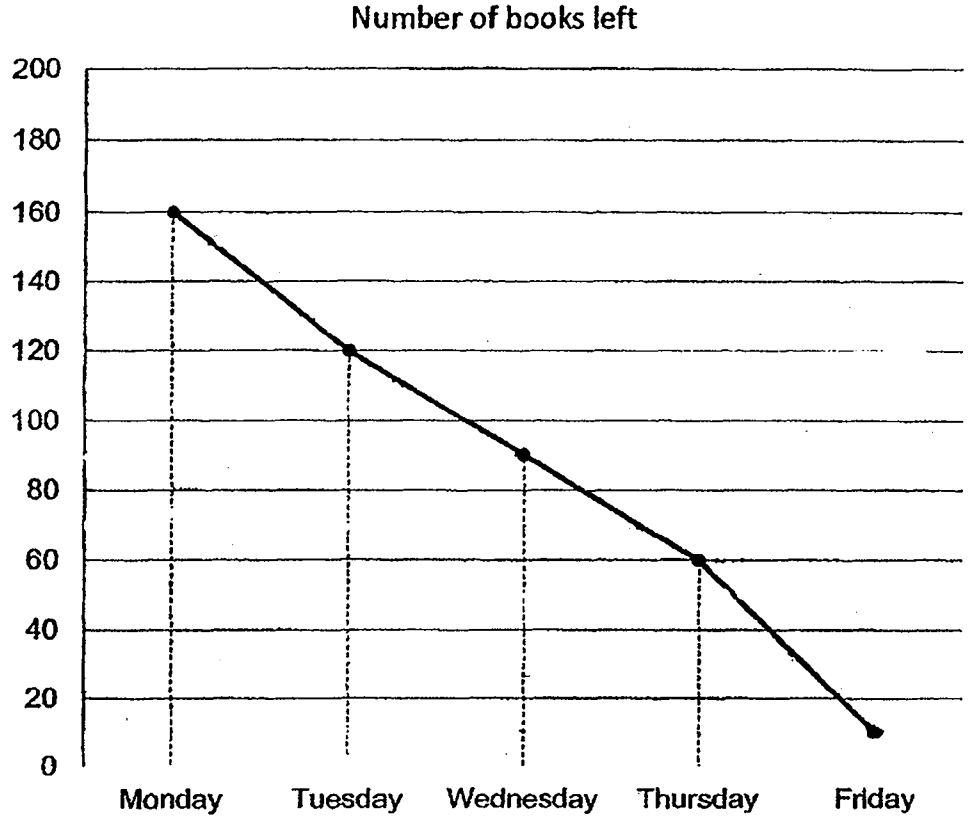
13. In the figure, AOB, COD and EOF are straight lines. ∠COE = 42° and ∠BOD = 63°. Find ∠AOF.



(1) 42°
(2) 63°
(3) 75°
(4) 105° ( )

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A school bookshop ordered 200 books to sell over a period of 5 days.
The graph below shows the number of books left at the end of each day.
Study the graph and answer questions 14 and 15.



14. How many books were sold on Thursday?

(1) 30
(2) 50
(3) 60
(4) 140 ( )

15. What is the average number of books sold over the period of 5 days?

(1) 30
(2) 38
(3) 40
(4) 88 ( )

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2019
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 : 30 October 2019 **Parent's Signature :** _____

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

Do not write in this space

16. What is the second common multiple of 6 and 9?

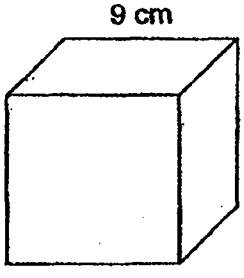
Ans: _____

17. What is the missing number in the box?

2 : 3 = ☐ : 18

Ans: _____

18. Find the volume of a cube of edge 9 cm.



Ans: _____ cm^3

Subtotal	/ 3

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19. The table shows the number of absentees in the P5 level for a week.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Number of absentees	10	0	8	9	13

Find the average number of absentees in the P5 level for the five days.

Ans: _____

20. Find the value of $\frac{3}{8} \times 2400$.

Ans: _____

Subtotal	/ 2

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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.

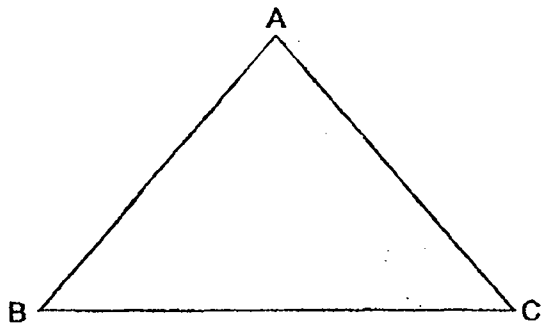
(20 marks)

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21. Triangle ABC is shown below.

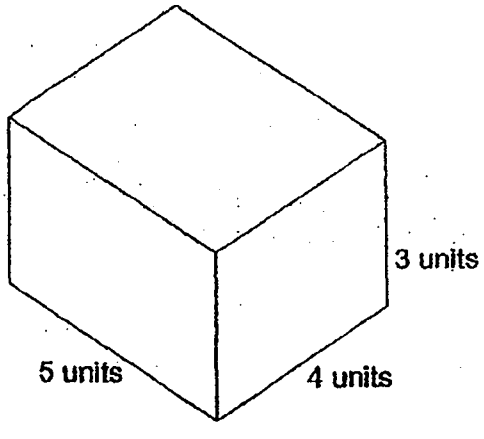
(a) Measure and write down the length of BC.
(b) Measure and write down the size of ∠BAC.

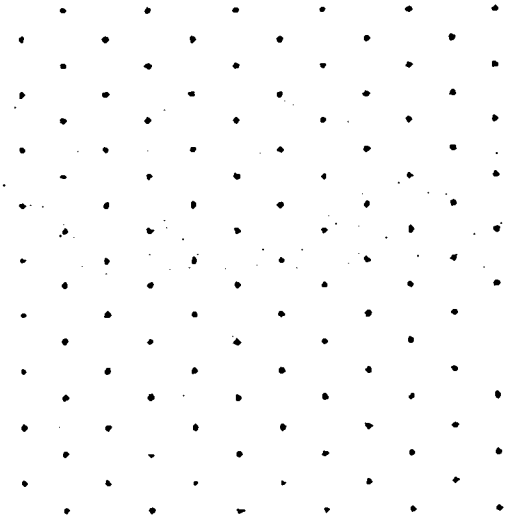


Ans: (a) _____ cm

(b) _____ °

22. Draw the following cuboid in the isometric grid.





Subtotal	/ 4

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23. (a) Find the value of $\frac{5}{8} - \frac{7}{12}$.

(b) Find the value of $\frac{3}{4} \times \frac{9}{10}$.

Ans: (a) _____

(b) _____

24. Use all the digits 3, 5, 6 and 8 to form

(a) the greatest even number.

(b) the number closest to 6000.

Ans: (a) _____

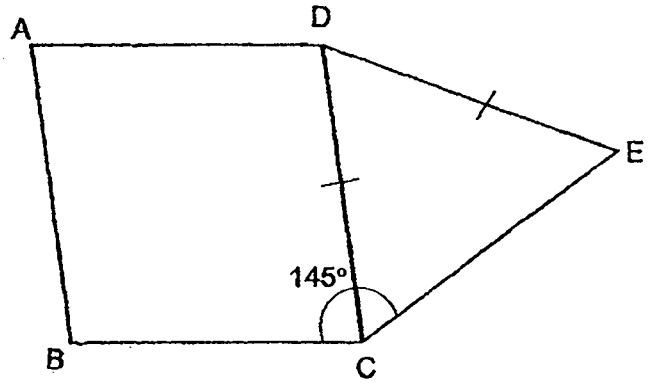
(b) _____

Subtotal	/ 4

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25. In the figure below, ABCD is a rhombus. CDE is an isosceles triangle. $\angle BCE = 145°$.



Each of the statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (✓) to indicate your answer.

Statement	True	False	Not possible to tell
$\angle BAD + \angle DEC = 145°$			
$\angle ABC = 125°$			

26. (a) Express 0.215 as a percentage.
(b) Express 40% as a fraction in its simplest form.

Ans: (a) _____ %

(b) _____

Subtotal	/ 4

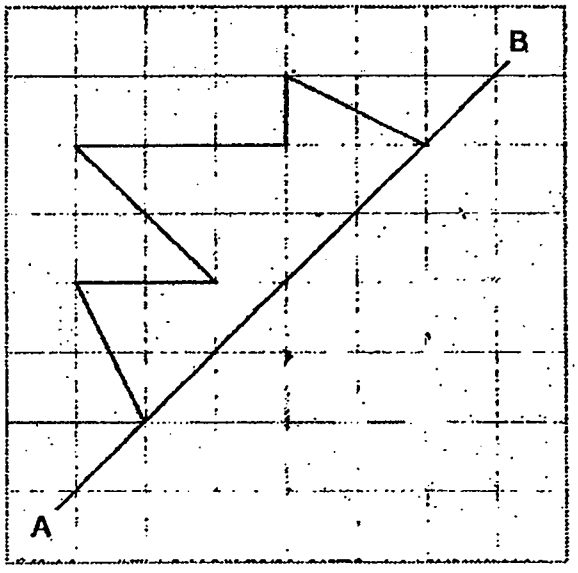
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27. Mrs Lim bought $\frac{7}{8}$ kg of meat. She cooked $\frac{1}{5}$ of it. How many kilograms of meat was left?

Do not write in this space

Ans: _____ kg

28. Complete the symmetric figure with AB as the line of symmetry.



Subtotal	/ 4

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29. Amy's father gave her $2 for every $18 that she saved. Together with the money that her father gave, Amy had a total of $95. How much money did Amy's father give her?

Do not write in this space

Ans: $ _____

30. Ali, Ben and Caili shared 72 cards among themselves. The ratio of Ali's number of cards to Ben's number of cards was 1 : 3. Caili got 5 cards less than Ben. How many cards did Ali get?

Ans: _____

— End of Paper 1 —

Subtotal	/4

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NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 2 – 2019
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 : 30 October 2019 **Parent's Signature :** _____

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Questions 1 to 5 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.

(10 marks)

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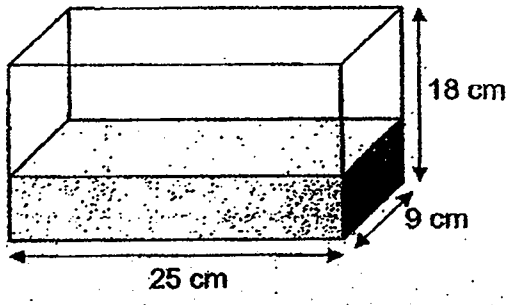
1. The ratio of Jason's mass to Sally's mass is 5 : 4. Their total mass is 117 kg.

   What is Sally's mass?

Ans: _____ kg

2. The amount of water in the tank is $\frac{1}{3}$ of the tank's capacity.

   Find the volume of water in the tank.



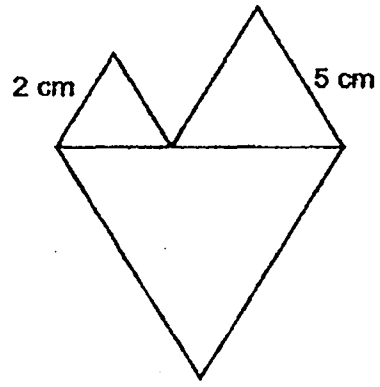
Ans: _____ cm^3

Subtotal	/ 4

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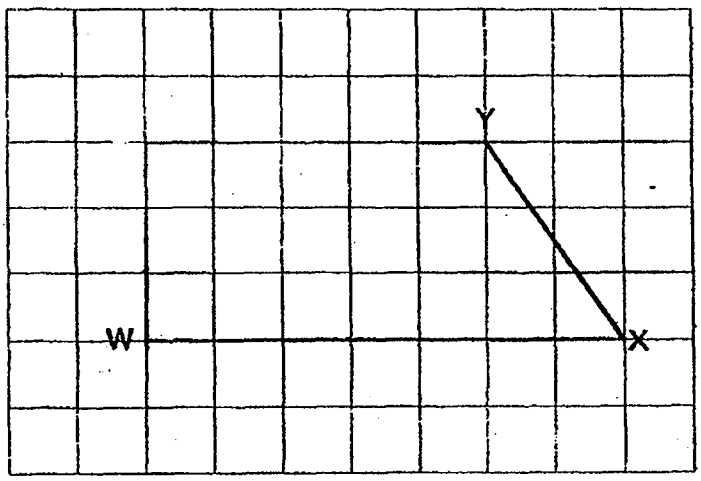
3. The following figure is made up of 3 different equilateral triangles.
What is the perimeter of the figure?

Do not write in this space



Ans: _____ cm

4. In the square grid below, WX and XY are two sides in Trapezium WXYZ.
Draw two more lines to complete Trapezium WXYZ given that ∠XWZ is 90°.



Subtotal	/ 4

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5. Samantha spent an average of $69 a day over a period of 5 days.
She spent twice as much on Friday compared to Wednesday.
Use the information given and complete the table.

Do not write in this space

Monday	Tuesday	Wednesday	Thursday	Friday
$38	$47	(a) $_____	$92	(b) $ _____

Subtotal	/ 2

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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)

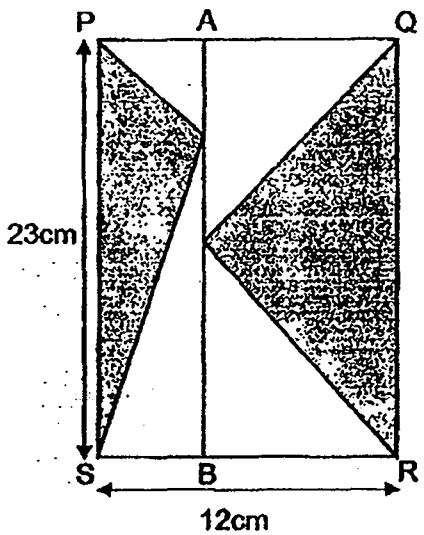
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6. PQRS, PABS and ABRQ are rectangles.

AQ is twice as long as AP.

Find the area of the shaded parts.



Ans; _____ [3]

7. A book has 168 pages. Peter read an average of 16 pages for 7 days.

How many pages does Peter have left to read?

Ans: _____ [3]

Subtotal	/ 6

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8. Delia put $13 250 in a bank. The bank gave an interest of 2% annually.
How much did she have in the bank after one year?

Do not write in this space

Ans: _____ [3]

9. A man worked at a shop and was paid according to the following rates.

He worked from Tuesday to Saturday for 8 hours a day.
How much did he earn in total?

	First 6 hours	Subsequent hour
Weekdays	$7 per hour	$9
Weekends	$9 per hour	$11

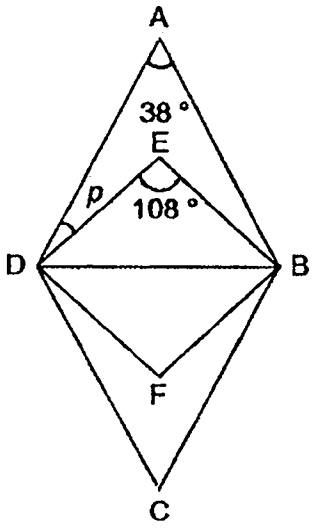
Ans: _____ [3]

Subtotal	/ 6

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10. The figure below is made up of 2 different rhombuses, ABCD and EBFD. Find the value of $\angle p$.

Do not write in this space



Ans: _____ [3]

11. Katie had 10 stamps less than Howard. After Katie bought 228 stamps and Howard bought 38 stamps, Katie had 4 times as many stamps as Howard. How many stamps did Howard have at first?

Ans: _____ [3]

Subtotal	/ 6

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12. Mark had an equal number of blue and red marbles. He gave away $\frac{5}{9}$ of his blue marbles and sold 49 red marbles. In the end, he was left with $\frac{1}{3}$ of the marbles. How many marbles did he have at first?

Ans: _____ [4]

13. Jerry had some marbles. He gave $\frac{3}{7}$ of the marbles to Amy and $\frac{3}{8}$ of the remaining marbles to Betty. He bought another 92 marbles and he ended up with twice the amount of marbles he had at first.
How many marbles did Jerry have at first?

Ans: _____ [5]

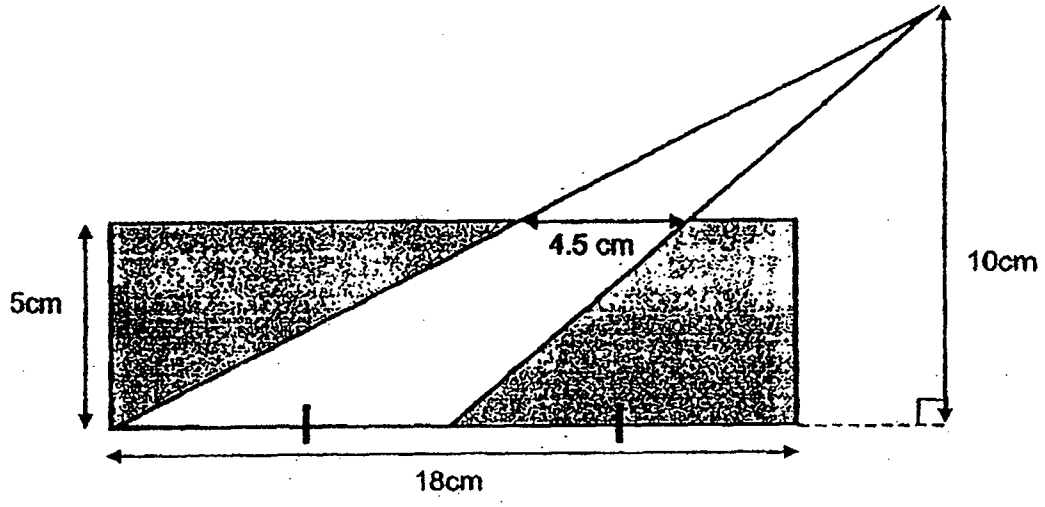
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Subtotal	/ 9

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14. The figure below shows a triangle overlapping a rectangle.
Find the area of the shaded part.

Do not write in this space



Ans: _____ [4]

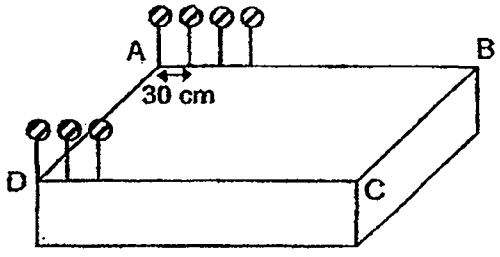
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15. 98 balloons were placed on a rectangular stage at an equal distance apart along AB and CD. The distance between 2 balloons was 30 cm. The figure shows part of the set-up.

a) What was the length of AB? Express your answer in centimetres.

While arranging, 8 balloons along AB burst. The workers then re-arranged the remaining balloons along AB such that the balloons were of equal distance apart from each other again.

b) What was the distance between 2 balloons on AB after the rearrangement?



Do not write in this space

Ans: a) _____ [2]

b) _____ [2]

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16. Agnes, Betty and Cindy had $3200 in total.

Agnes gave $324 to Betty. Betty then gave half of her money to Cindy.

Cindy then spent $620. In the end, they had the same amount of money.

a) How much did Betty have at first?

b) How much more did Betty have than Agnes at first?

Do not write in this space

Ans: a) _____ [3]

b) _____ [2]

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17. George bought three times as many notebooks as pencils. The total cost of all the items was $840. He paid $780 for the notebooks. Each notebook cost $4 more than each pencil.

(a) How much did he pay for the pencils?

(b) How many pencils did he buy?

Do not write in this space

Ans: a) _____ [1]

b) _____ [4]

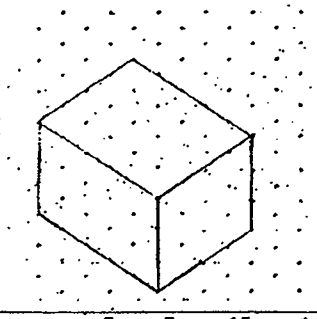
— End of Paper 2 —

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SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2019 SA2

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

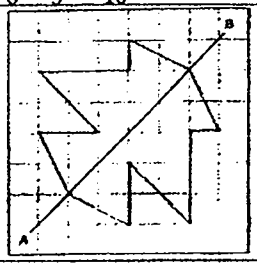
PAPER 1

Q16	6,12,18,24,30,36 9,18,27,36 ANS:36
Q17	2:3 = 12:18
Q18	Volume = $9 \times 9 \times 9 = 729cm^3$
Q19	10+8+9+13 = 40 40÷ 5 = 8
Q20	$\frac{3}{8} \times 2400 = 900$
Q21	a) 7 cm b) 82 °
Q22	
Q23	a) $\frac{5}{8} - \frac{7}{12} = \frac{15}{24} - \frac{14}{24} = \frac{1}{24}$ b) $\frac{3}{4} \times \frac{9}{10} = \frac{27}{40}$
Q24	a) 8536 b) 5863

Q25

Statement	True	False	Not possible to tell
∠BAD+ ∠DEC=145°			
∠ABC=125°			

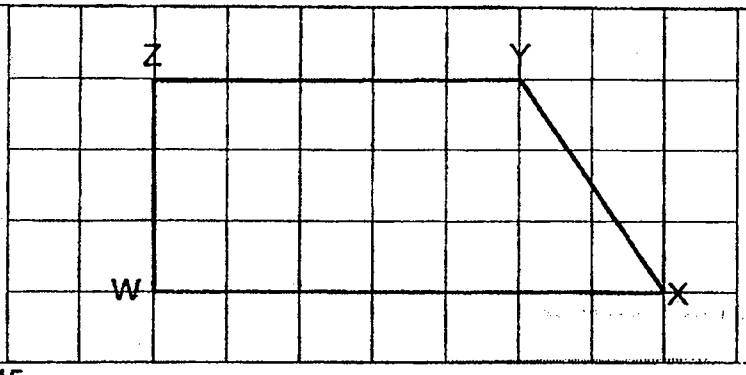
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Q26	a) 21.5% b) $40\% = \frac{40}{100} = \frac{2}{5}$
Q27	$\frac{7}{8} \times \frac{4}{5} = \frac{7}{10}$kg
Q28	

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29	95 ÷ 20 = 4R15 4 × 2 = 8	
30	1u + 3u + 3u = 7u 7u = 72 + 5 = 77 1u = 77 ÷ 7 = 11	

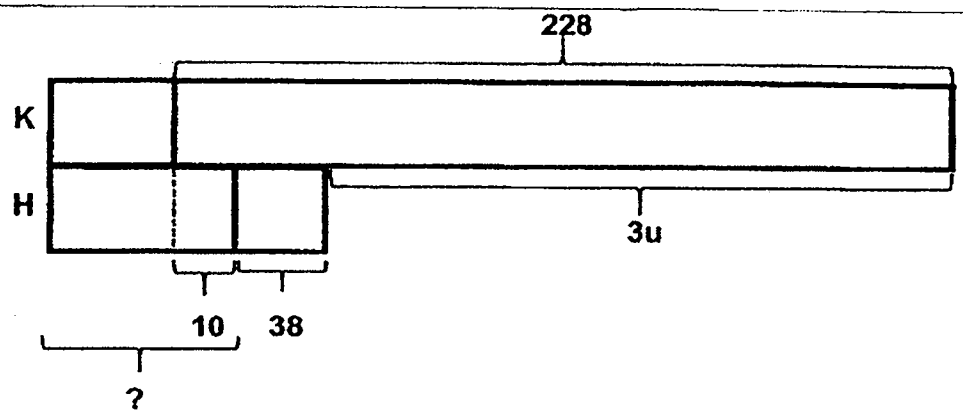
Paper 2

1.	117 ÷ 9 = 13 13 × 4 = 52
2.	18 ÷ 3 = 6 25cm × 9cm × 6cm = 1350cm^3 Or 25 × 9 × 18 = 4050 4050cm^3 ÷ 3 = 1350cm^3
3.	4cm + 10cm + 14cm = 28cm
4.	
5. (a) (b)	69 × 5 = 345 345 – 38 – 47 – 92 = 168 168 ÷ 3 = 56 56 × 2 = 112
6.	$\frac{1}{2}$ × 23 cm × 4 cm = 46 cm^2 $\frac{1}{2}$ × 23 cm × 8 cm = 92 cm^2 46 cm^2 + 92 cm^2 = 138 cm^2
7.	16 × 7 = 112 168 – 112 = 56
8.	$13250 ÷ 100 = $132.50 $132.50 × 2 = $265 $265 + $13250 = $13515
9.	$7 × 6 = $42 $9 × 6 = $54 $42 + $18 = $60 $54 + $22 = $76 $60 × 4 = $240 $240 + $76 = $316

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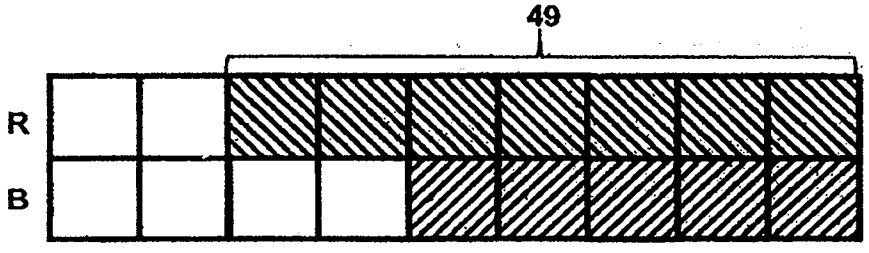
10. $180^\circ - 38^\circ = 142^\circ$
$180^\circ - 108^\circ = 72^\circ$
$\angle ADB = 142^\circ \div 2 = 71^\circ$
$\angle EDB = 72^\circ \div 2 = 36^\circ$
$\angle p = 71^\circ - 36^\circ = 35^\circ$

11.



$10 + 38 = 48$
$228 - 48 = 180$
$180 \div 3 = 60$
$60 - 38 = 22$

12.



$9u \times 2 = 18u$

$\frac{1}{3} = \frac{6}{18}$

$\frac{6}{18} - \frac{4}{18} = \frac{2}{18}$

$\frac{9}{18} - \frac{2}{18} = \frac{7}{18}$

$7u = 49$
$1u = 49 \div 7 = 7$
$18u = 7 \times 18 = 126$

13. $\frac{7}{7} - \frac{3}{7} = \frac{4}{7}$

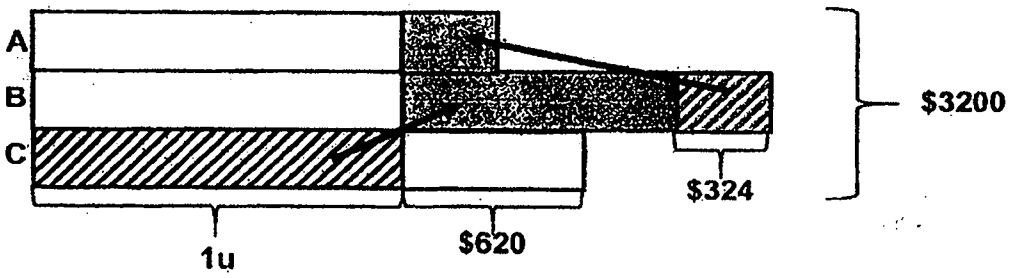
$\frac{3}{8} \times \frac{4}{7} = \frac{3}{14}$

$\frac{3}{14} + \frac{3}{7} = \frac{9}{14}$

$\frac{14}{14} - \frac{9}{14} = \frac{5}{14}$

$14u \times 2 = 28u$
$28u - 5u = 23u$
$92 \div 23 = 4$
$4 \times 14 = 56$

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14.	$\frac{1}{2} \times 9 \times 10 = 45$ $\frac{1}{2} \times 4.5 \times 5 = 11.25$ $45 - 22.5 = 33.75$ $18 \times 5 = 90$ $90\ cm^2 - 33.75\ cm^2 = 56.25\ cm^2$
15. a)	$98 \div 2 = 49$ $49 - 1 = 48$ $48 \times 30cm = 1440\ cm$
b)	$49 - 8 = 41$ $41 - 1 = 40$ $1440cm \div 40 = 36cm$
16. a)	 $3200 - $620 = $2580 $2580 \div 3 = $860 $860 \times 2 = $1720 $1720 - $324 = $1396
b)	$860 + $324 = $1184 $1396 - $1184 = $212
17a)	$840 - 780 = 60$
b)	$780 \div 3 = 260$ $260 - 60 = 200$ $200 \div 4 = 50$

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