26

TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

PRIMARY 5 END-OF-YEAR EXAMINATION 2016

Name : _____( ) Date: 24 October 2016

Class : Primary 5 ( ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____ Marks: _____ / 100

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this 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.
6. You are **not** allowed to use a calculator.

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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). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

---

1. The digit 8 in 4 080 367 has a value of _____.

   (1) 80
   (2) 800
   (3) 8 000
   (4) 80 000

2. How many hundreds are there in 30 000?

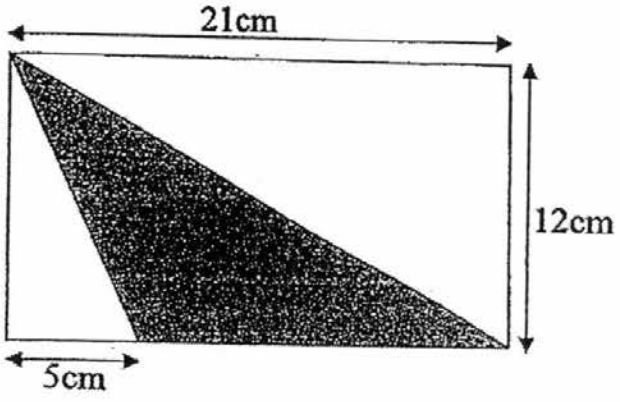
   (1) 30
   (2) 300
   (3) 3 000
   (4) 30 000

3. 3 thousands + 1 hundred + 6 tenths + 3 hundredths is ☐.
   What is the missing value in the box?

   (1) 3 160.3
   (2) 3 160.03
   (3) 3 100.63
   (4) 3 100.063

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4. What is the area of the shaded triangle shown?



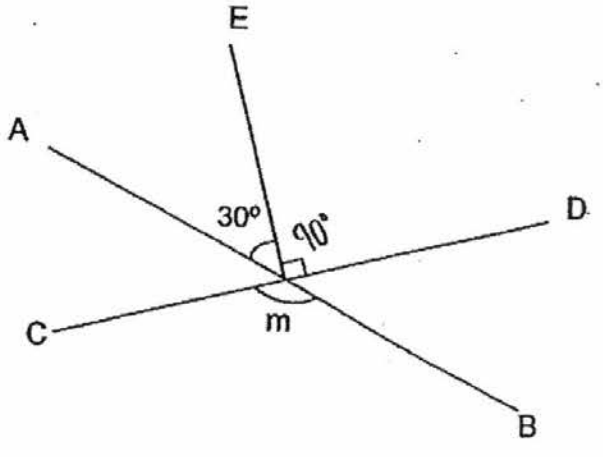
(1) 96 cm^2

(2) 126 cm^2

(3) 156 cm^2

(4) 192 cm^2

5. The figure below is not drawn to scale. AB and CD are straight lines. Find $\angle m$.



(1) 30°

(2) 60°

(3) 120°

(4) 150°

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6. In a classroom of pupils, $\frac{2}{5}$ of them are girls. What percentage of the pupils are boys?

(1) 60%
(2) 40%
(3) 3%
(4) 4%

7. A piece of wire measuring 488 m was cut by a machine into 400 equal pieces. What was the length of each piece of wire ?

(1) 0.122 m
(2) 1.22 m
(3) 12.2 m
(4) 122 m

8. Michael gave $\frac{2}{5}$ of his marbles to his sister. He then divided the remainder equally among his 3 friends. If each of his friends receives 12 marbles, how many marbles did Michael have at first?

(1) 12
(2) 24
(3) 36
(4) 60

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9. The total of 4 numbers is 28. When a number was added, the average became 8. What is the value of the number added?

(1) 7
(2) 12
(3) 20
(4) 36

10. Susan bought a tennis racquet at a discount of 20%. She paid $120 for it. What was the price of the racquet at first?

(1) $96
(2) $100
(3) $140
(4) $150

11. Howard spent 3 days making paper boats for his friends. Each day he managed to make 4 more paper boats than the day before. He made a total of 36 paper boats. How many paper boats did he make on the first day?

(1) 8
(2) 12
(3) 16
(4) 24

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12. $\square$: 28 = 24 : 42

The missing number in the box is _____.

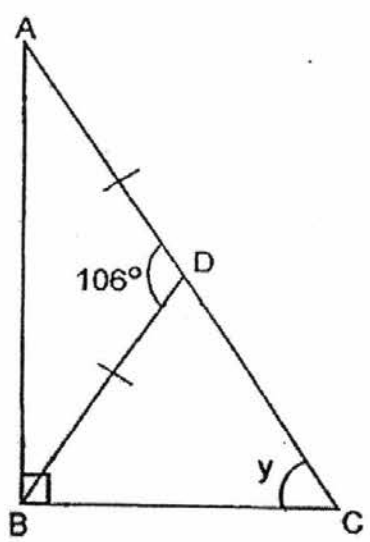
(1) 12

(2) 16

(3) 20

(4) 24

13. In the triangle below, AD = BD and $\angle ADB = 106°$. Find $\angle y$.



(1) 37°

(2) 53°

(3) 61°

(4) 74°

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14. The ratio of the number of apples to the number of oranges is 7 : 5 .
After 6 more apples were added to the basket, the ratio became 9 : 5 .
How many apples were there at first?

(1) 14
(2) 16
(3) 21
(4) 42

15. The table below shows the postage rates for sending parcels to Indonesia.

Weight	Postage
First 50g	$1.00
Every additional 50g or less	$0.80

Find the postage for sending a parcel which weighs 235g.

(1) $3.20
(2) $3.40
(3) $4.00
(4) $4.20

End of Booklet A

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TAO NAN SCHOOL 道南学校

SINCERITY & PERSEVERANCE

PRIMARY 5 END-OF-YEAR EXAMINATION 2016

Name : _____ ( ) Date: 24 October 2016

Class : Primary 5 ( ) Time: 8.00 a.m. - 8.50 a.m.

Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)

20

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this 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. You are **not** allowed to use a calculator.

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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)

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16. Round off 62 816 to the nearest ten thousand.

Ans: _____

17. Express 6km 3m in km. Leave your answer as a decimal.

Ans: _____km

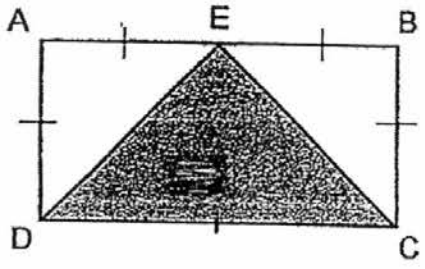
18. 3 children shared $\frac{9}{13}$ of a pizza. What fraction of the pizza did each child get?

Leave your answer as a fraction in simplest form.

Ans: _____

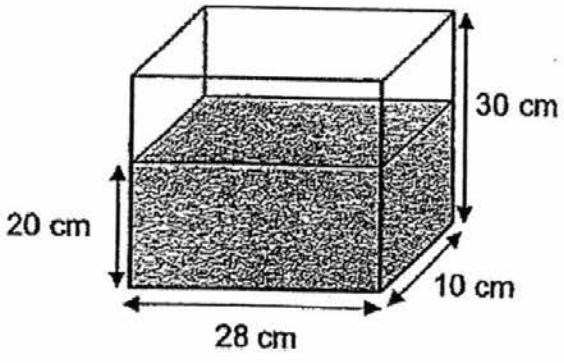
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19. In the figure below, ABCD is a rectangle and AE = BE = BC.
The area of Triangle EBC = 18 cm^2. Find the shaded area.



Ans: _____ cm^2

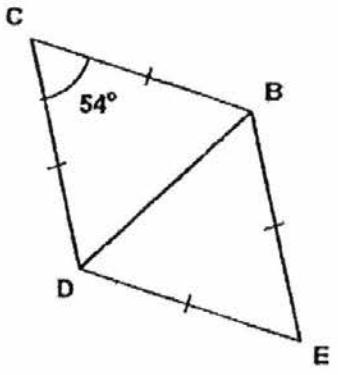
20. The figure below shows a container filled with some water.
How much more water is needed to fill it completely?



Ans: _____ cm^3

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21. BCDE is a rhombus. Given that $\angle BCD = 54°$, find $\angle EDB$.



Ans: _____ °

22. The average mass of three boxes is 6kg. The first box weighs 3kg and the second box weighs 2.6kg. Find the weight of the third box.

Ans: _____ kg

23. Study the following number pattern.

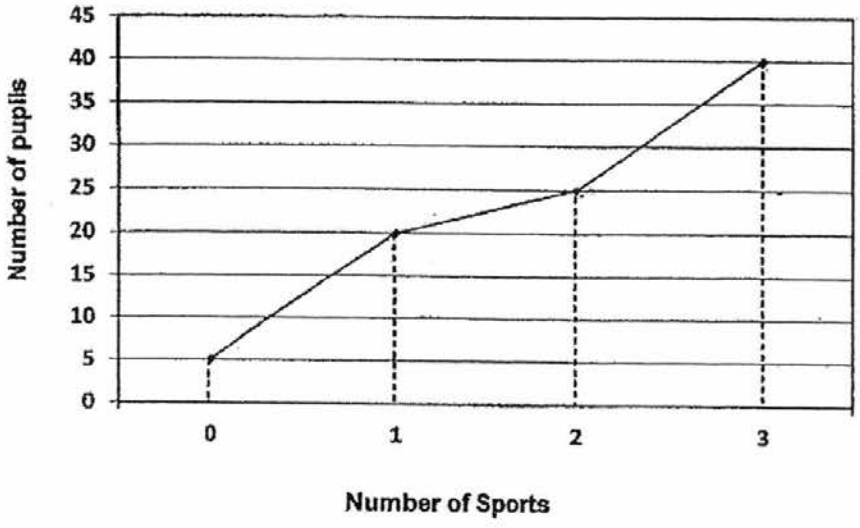
70. 72, 71, 70, 70, 71, 72, 71, 70, 70, 71, 72, 71, 70, ...

What is the 1004th number in the pattern?

Ans: _____

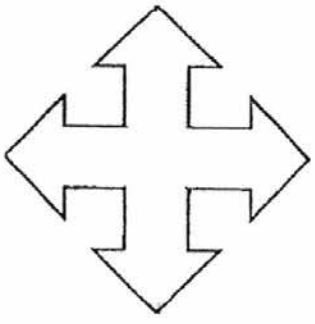
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24. The graph below shows the number of sports that a group of pupils participated in. How many pupils participated in **at least** 1 sport?



Ans: _____

25. How many lines of symmetry are there in the figure below?



Ans: _____

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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. Mrs Toh paid a total of $20 for one adult and two child tickets. If a child ticket was $\frac{3}{4}$ of the price of an adult ticket, what was the price of an adult ticket?

Ans: $_____

27. A 2-digit number gives a remainder of 6 when divided by 10.
It gives a remainder of 4 when divided by 8.
What is the smallest possible number ?

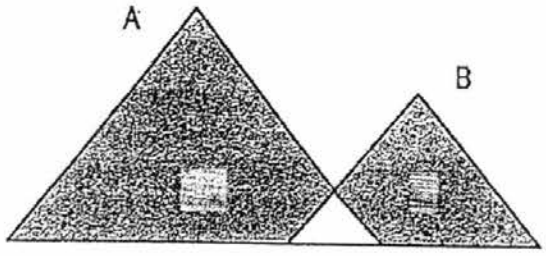
Ans: _____

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28. The figure is made up of 2 triangles, A and B, overlapping each other.

$\frac{10}{11}$ of A is shaded and $\frac{4}{5}$ of B is shaded.

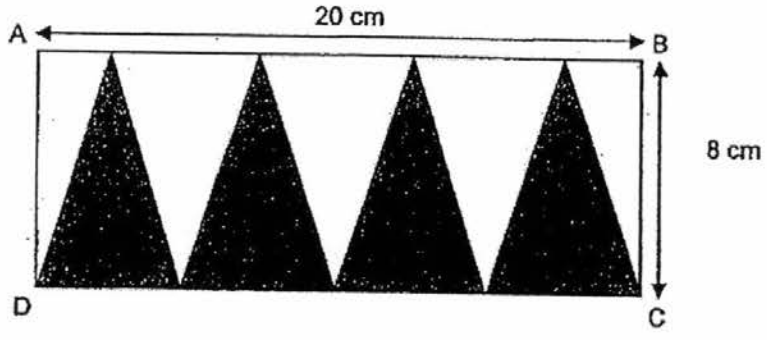
What is the ratio of the shaded area of A to the figure?



Ans: _____

29. In the figure below, ABCD is a rectangle measuring 20 cm by 8 cm.

Find the shaded area.



Ans: _____ cm^2

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30. The table below shows the number of each type of books in a class's library.
What percentage of the books in the class library were Mystery books?

	Adventure	Mystery	Fantasy
Number of Books	55	26	49

Ans: _____

End of Booklet B

End of Paper 1

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PRIMARY 5 END-OF-YEAR EXAMINATION 2016

Name : _____( ) Date: 24 October 2016

Class : Primary 5 (Time: 10.00 a.m. – 11.40 a.m.

Parent's Signature : _____

MATHEMATICS

PAPER 2

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register no.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. You are allowed to use a calculator.

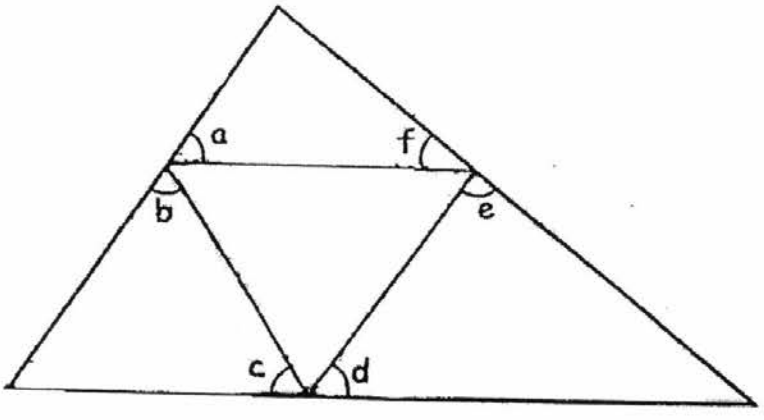
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Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1. When Janet sells 1 box of cookies, she will earn $1.00. For every 10 boxes of cookies sold, she will earn an additional $2.00. What is the minimum number of boxes of cookies she has to sell if she wants to earn $36?

Ans: _____

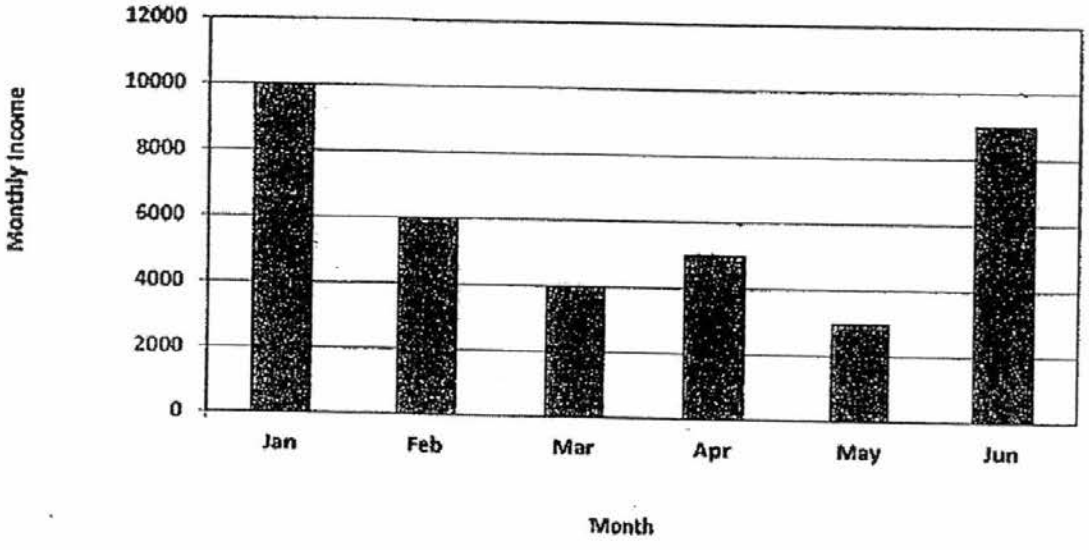
2. What is the value of the sum of $\angle a$, $\angle b$, $\angle c$, $\angle d$, $\angle e$ and $\angle f$?



Ans: _____ °

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3. The graph below shows the monthly income of Mrs Tan for the first half of the year. In which month was her income $\frac{3}{5}$ of her combined income in January and April?



Ans: _____

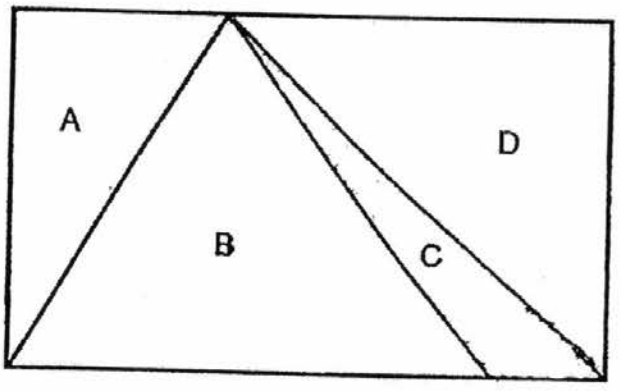
4. During a promotion at a zoo, for every 4 visitors, the 5th visitor will be given a free admission ticket. How many free tickets will be given to a group of 46 visitors?



Ans: _____

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5.



The rectangle above is divided into 4 sections A, B, C and D.
Area C is 15% of the area of the rectangle.
What percentage of the rectangle is the area of B?

Ans: _____%

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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. Alice had \$175 and Sally had \$117. After each of them spent the same amount of money, Alice found that she had three times as much money as Sally left. How much did Alice spend?

Ans: _____ [3]

7. Samuel had a piece of wire 8 m long. He cut 8 pieces each measuring $\frac{1}{2}$ m long from the original piece. The remainder was used to form a square.
Find the area of the square.

Ans: _____ [3]

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8. A copper pole weighs 8.5 kg while a plastic pole weighs 5.2 kg.
A total of 45 copper and plastic poles weigh 303.3 kg.
How many plastic poles are there?

Ans: _____ [3]

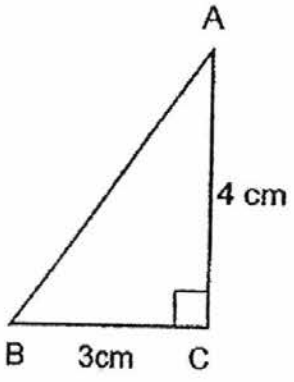
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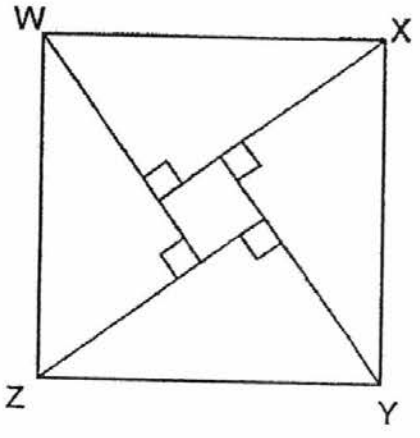
9. A sum of money was shared among 3 girls. Betty had $90 more than Cindy.
The ratio of Alisa's money to Betty's money is 3 : 5.
The ratio of Cindy's money to Alisa's money is 1 : 6 .
Find the sum of money shared by the children.

Ans: _____ [3]

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10. ABC is a right-angled triangle. 4 such identical triangles are used to form the square WXYZ. Find the length of each side of the big square WXYZ.





Ans: _____ [3]

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11. Nick has the following scores for his first 3 tests. He wishes to improve his average score by 3 marks. How many marks must he score for his next test?

Test 1	Test 2	Test 3	Test 4
76	69	59	?

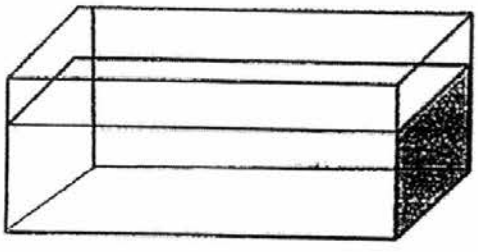
Ans: _____ [3]

12. Ronald has a total amount of $3 220 in $10 and $50 notes.
The number of $10 notes is twice as many as the number of $50 notes.
How many notes does he have?

Ans: _____ [4]

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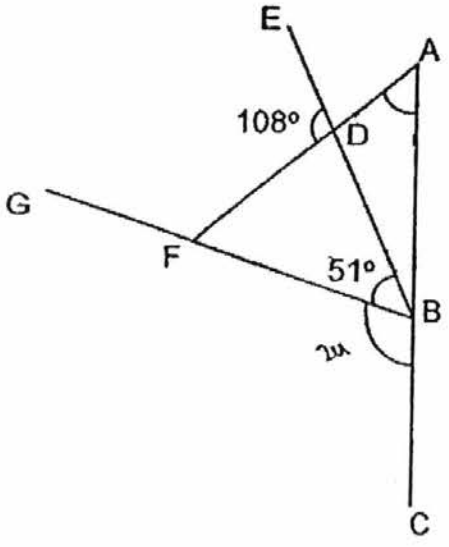
13. A rectangular tank 38 cm long, 23 cm wide, and 18 cm high is $\frac{4}{5}$ full of water. When $\frac{1}{4}$ of the water was removed from the tank, how many litres of water was left in the tank? Express your answer as a decimal correct to 2 decimal places.



Ans : _____ [4]

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14. In the figure below, not drawn to scale, ABC, BFG, BDE, ADF are straight lines. Given that $\angle CBF$ is twice the size of $\angle FBD$, find $\angle BAF$.



Ans: _____ [4]

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15. A fund-raising project lasted 2 weeks.
In the 1st week, Team A raised 4 times as much money as Team B.
In the 2nd week, Team A raised another $240 while Team B raised another $160.
The total amount raised by Team A was thrice as much money as the total amount raised by Team B.
What was the total amount of money raised by the two teams?

Ans: _____ [5]

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16. Mrs Tan bought the following fruits from a stall.
She paid a total of $25.50 for them.
Find the cost of 100g of rambutans in cents.

 *Grapes* *$5 per kg*	 *Apples* *3 for $1*	 *Rambutans*
1.5 kg	**12**	**4 kg**

Ans: _____ [5]

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17. At a concert, $\frac{1}{6}$ of the audience were children. 60% of the adults were women. There were 48 more women than children.

a) How many women were in the hall?

b) Fifteen minutes before the concert ended, some men left the hall. $\frac{1}{4}$ of the remaining audience were men.

How many men left before the end of the concert?

Ans: a) _____ [2]

b) _____ [3]

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18. Tim baked 4 200 pies. 40% of them were apple pies. How many more apple pies must Tim bake so that 80% of his pies are apple pies?

Ans: _____ [5]

End of Paper 2

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EXAM PAPER 2016 (P5)

SCHOOL : TAO NAN

SUBJECT : MATHEMATICS

TERM : SA2

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

16） 60000 17)6.003km 18)3/13 19)36cm2 20)2800cm3

21)63° 22)12.4kg 23)71 24)85 25)4

26)$8 27)36 28)2 : 3 29)80cm2 30)20%

<u>Paper 2</u>

1)10 x $1 = $10

$10 + $2 = $12

$36 ÷ $12 = 3

3 x 10 = 30

2)540° − 180° = 360°

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3)10000 + 5000 = 15000

15000 x 3/5 = 9000 (June)

4)4 + 1 = 5

46 ÷ 5 = 9R1

5)50% - 15% = 35%

6)$175 – $117 = $58

3 – 1 = 2

$58 ÷ 2 = $29

$29 x 3 = $87

$175 – $87 = $88

7)8m = 800cm

½ m = 50cm

50 cm x 8 = 400cm

800 cm – 400 cm = 400cm

400 cm ÷ 4 = 100 cm

100 cm x 100 cm = 10000cm2

8)5.2kg x 4 = 234kg

303.3kg – 234kg = 69.3kg

8.5kg – 5.2kg = 3.3kg

69.3kg ÷ 3.3kg = 21

45 – 21 = 24 plastic poles

9)10 – 1 = 9

$90 ÷ 9 = $10

$10 x (10+6+1) = $170

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10)4 – 3 = 1

1 x 1 = 1

½ x 4 x 3 = 6

6x 4 = 24

24 + 1 = 25

$\sqrt{25}$ = 5cm

11)76 + 69 + 59 = 204

204 ÷ 3 = 68

(68 + 3) x 4 = 284

284 – 204 = 80

12)$10 x 2 = $20

$20 + $50 = $70

$3220 ÷ $70 = 46

46 x 3 = 138 notes

13)12585.6cm3 x (1 – ¼) = 9439.2cm3

9439.2cm3 = 9439.2ml

~~9.44L

14)51 x (2+1) = 153

180 – 153 = 27

180 – 108 – 27 = 45°

15)4u + $240 = 3u + $480

4u – 3u = $480 – $240 = $240

$240 x (4+1) = $1200

$1200 + $240 + $160 = $1600

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16)$5 ÷ 2 = $2.50

$5 + $2.50 = $7.50

(12 ÷ 3) x $1 = $4

$7.50 + $4 = $11.50

$25.50 – $11.50 = $14

4kg ÷ 100g = 40

$14 ÷ 40 = $0.35

= 35c

17)a)3 – 1 = 2

48 ÷ 2 = 24

24 x 3 = 72 women

b)72 + 24 = 96

96 ÷ (1 – ¼) = 32

48 – 32 = 16 men

18)4200 x 40/100 = 1680

4200 – 1680 = 2520

100/100 – 80/100 = 20/100

(2520 ÷ 20) x 80 = 10080

10080 – 2520 = 8400 more

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