PRELIM

新加坡福建会馆属下五校小六统一考试

道南 ◦ 爱同 ◦ 崇福 ◦ 南侨 ◦ 光华

SINGAPORE HOKKIEN HUAY KUAN
5-SCHOOL COMBINED
PRIMARY 6 PRELIMINARY EXAMINATION
TAO NAN ◦ AI TONG ◦ CHONGFU ◦ NAN CHIAU ◦ KONG HWA

2017

数学 MATHEMATICS
PAPER 1
BOOKLET A

Date: 22 August 2017
Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

√ Do not open this booklet until you are told to do so.
√ Follow all instructions carefully.
√ Answer all questions.
√ Shade your answers in the Optical Answer Sheet (OAS) provided.
√ The use of calculators is **NOT** allowed.

This booklet consists of 7 printed pages.

School : _____

Name : _____

Class : _____

TOTAL	/20

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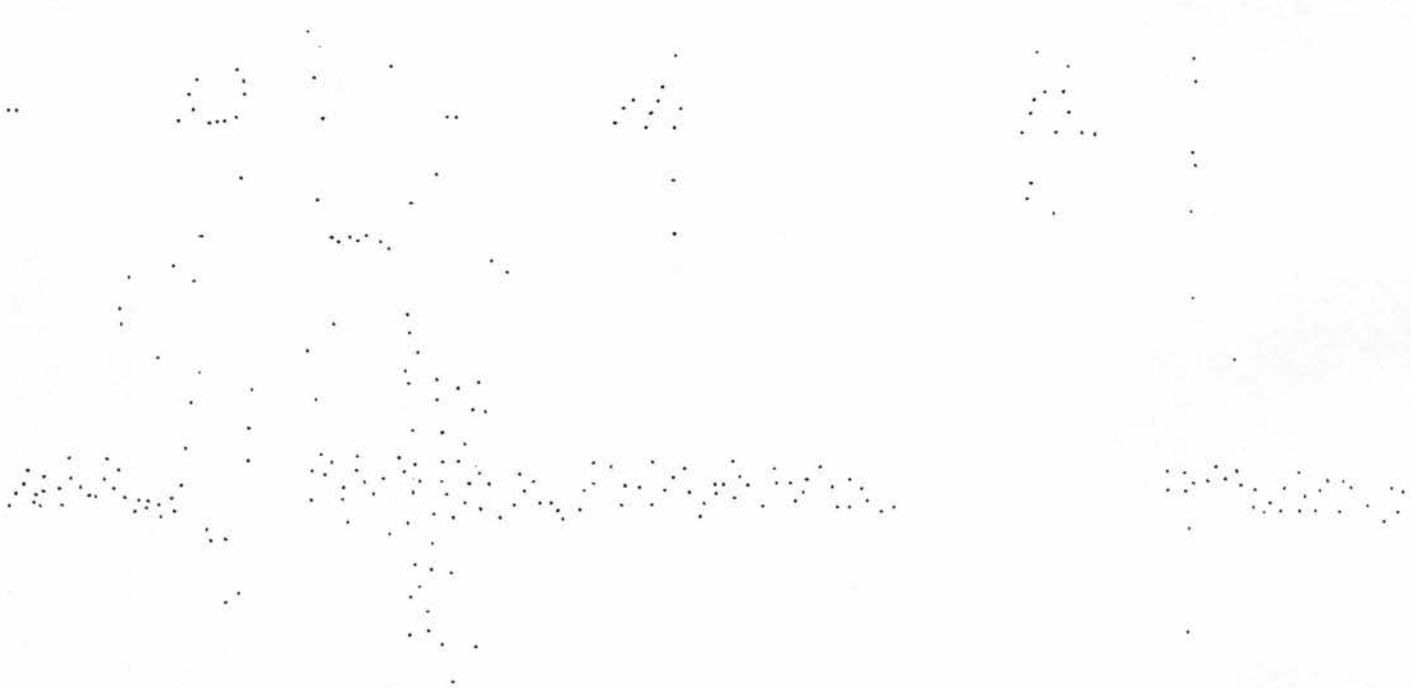

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Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (20 marks)

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1 What is the value of 3 hundreds, 7 tenths and 9 hundredths?

(1) 300.79

(2) 300.709

(3) 307.9

(4) 370.09

2 Which is the greatest possible number that will become 25 000 when rounded off to the nearest thousand?.

(1) 24 500

(2) 24 999

(3) 25 499

(4) 25 900

3 Express 3.05 ℓ in mℓ.

(1) 305 mℓ

(2) 350 mℓ

(3) 3005 mℓ

(4) 3050 mℓ

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4 The table below shows the number of cakes Mrs Tan sold from Friday to Sunday.

Day	Number of cakes sold in terms of y
Friday	$3y$
Saturday	$30 - y$
Sunday	$4y - 7$

What was the total number of cakes Mrs Tan sold from Friday to Sunday?

(1) $8y + 23$

(2) $8y - 37$

(3) $6y + 23$

(4) $6y - 37$

5 How many three-quarters are there in 12?

(1) $\frac{1}{16}$

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

(3) 9

(4) 16

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6 A number when divided by 30 gives a quotient of 5 and a remainder of 8.
What is the number?

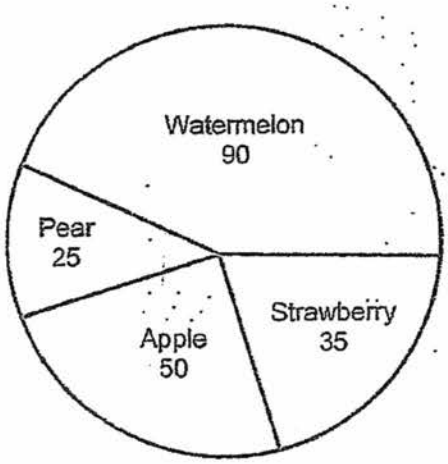
(1) 142

(2) 158

(3) 190

(4) 245

7 The pie chart shows the favourite fruits of a group of 200 students.
Which fruit was chosen by 25% of the students as their favourite fruit?



(1) Apple

(2) Pear

(3) Strawberry

(4) Watermelon

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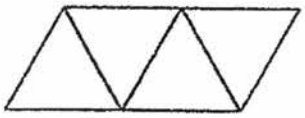
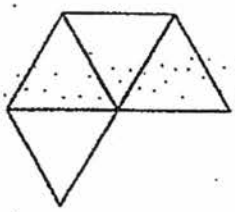
8 Which of the following is a net of a prism?

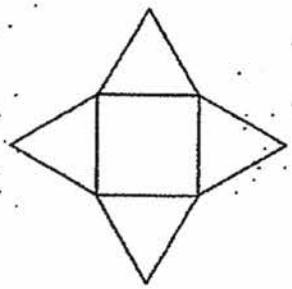
(1)



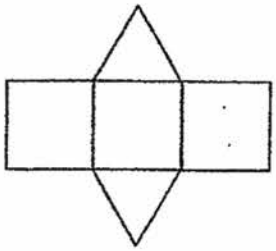
(2)



(3)



(4)



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9 The ratio of Imran's age to Johan's age is 3 : 4. Imran is 24 years old. How old is Johan?

(1) 18 years old

(2) 25 years old

(3) 28 years old

(4) 32 years old

10 The sum of 4 numbers is 960. One of the numbers is 150. What is the average of the other 3 numbers?

(1) 240

(2) 270

(3) 320

(4) 810

11 The table below shows a baby's mass on the first day of each month from March to July.

Date	Mass (kg)
1st March	2.6
1st April	3.5
1st May	5.1
1st June	6.2
1st July	7.4

In which month did the baby's mass increase the least?

(1) March

(2) April

(3) May

(4) June

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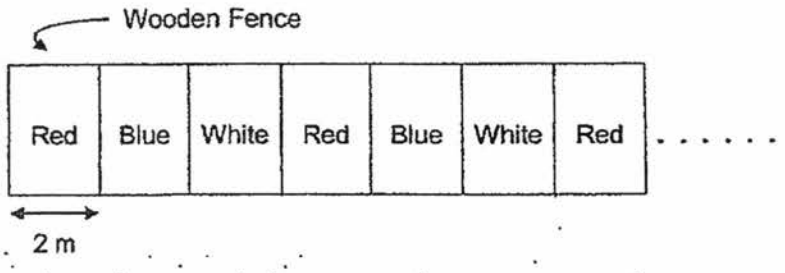
12 A wooden fence 100 m long is divided into equal segments and painted red, blue and white. Each segment is 2 m long. The segments follow a repeated pattern. How many segments of the wooden fence are painted red?



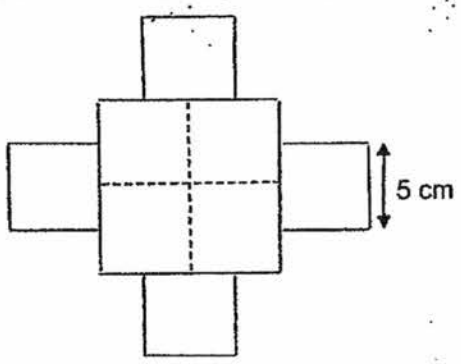
(1) 16

(2) 17

(3) 22

(4) 34

13 The figure is formed by putting 8 identical pieces of 5-cm square papers together without overlapping. Find the perimeter of the figure.



(1) 200 cm

(2) 160 cm

(3) 80 cm

(4) 40 cm

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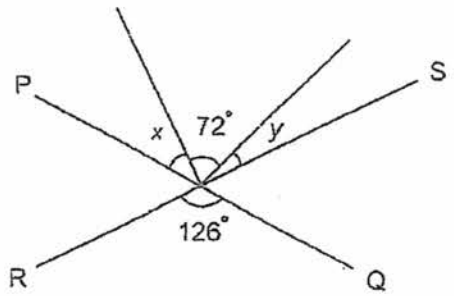
14 In the figure, PQ and RS are straight lines. $\angle x$ is twice of $\angle y$. Find the size of $\angle x$.



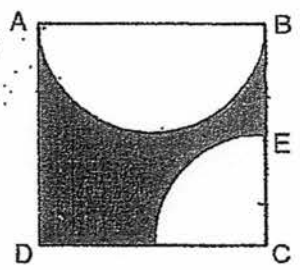
(1) 18°

(2) 27°

(3) 36°

(4) 54°

15 ABCD is a square of area 64 cm^2 A semicircle and a quadrant lie within the square. BE = EC:. Find the area of the shaded part.



(1) (52 π) cm^2

(2) (64 − 6 π) cm^2

(3) (64 − 12 π) cm^2

(4) (64 − 16 π) cm^2

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数学 MATHEMATICS
PAPER 1
BOOKLET B

Date: 22 August 2017
Total Time for Booklets A and B: 50 min

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School : _____

Name : _____

Class : _____

TOTAL	/ 20

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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)

Do not write in this space

16 Divide 12.36 by 4.

Ans : _____

17 Write down all the common factors of 15 and 36.

Ans : _____

18 Andy, Bill and Cody shared 160 Pokemon cards in the ratio 4 : 3 : 1. How many Pokemon cards did Cody have?

Ans : _____

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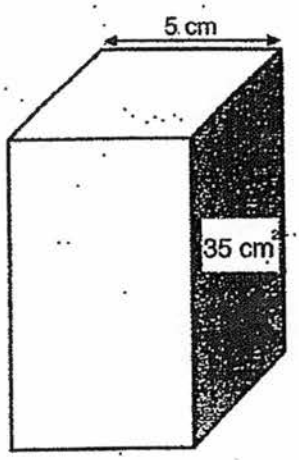
19 Find the value of $\frac{2}{3} \div \frac{5}{9}$.

Express your answer as a mixed number in its simplest form.

Do not write in this space

Ans: _____

20 Find the volume of the cuboid below.



Ans : _____ cm^3

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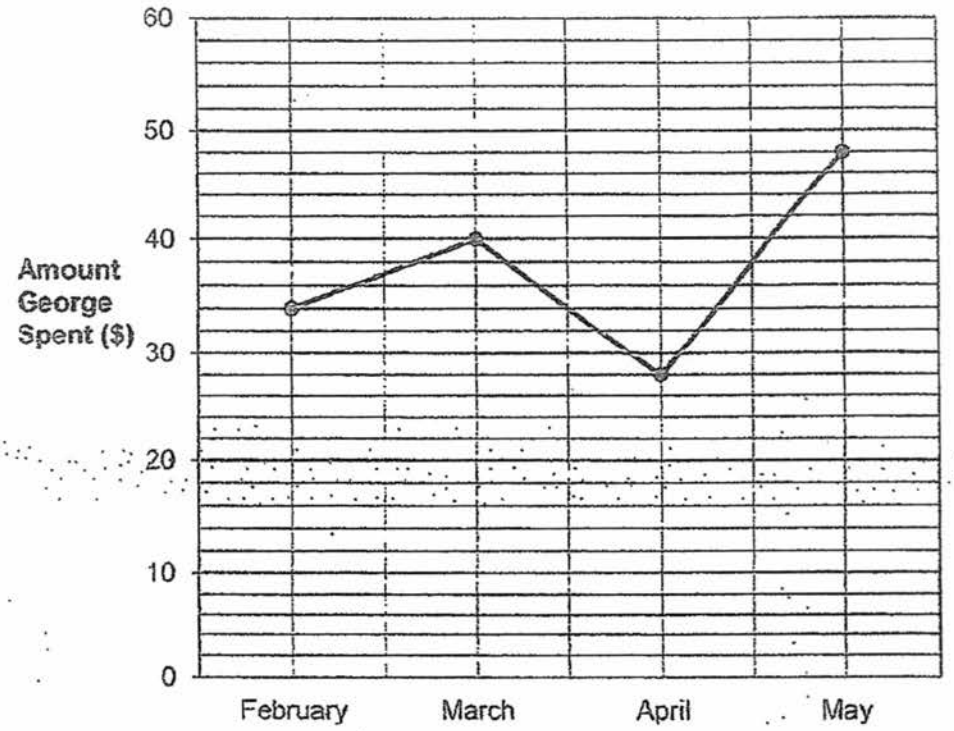
Use the information below to answer questions 21 and 22.

Do not write in this space

George received $80 for his pocket money each month. The line graph shows the amount of pocket money he spent each month. He saved the rest of his pocket money.



21 In which month did George spend more than half his pocket money?

Ans : _____

22 How much did George save in February?

Ans : $_____

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23 There are 45 eggs in a tray. 20% of them are cracked. How many eggs in the tray are not cracked?

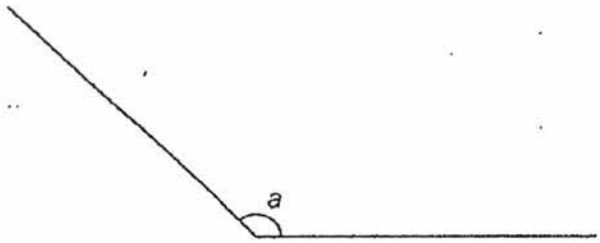
Do not write in this space

Ans : _____

24 Oranges are only sold in bags of 4 oranges. Each bag is sold at $2. Mrs Lim has $11. How many oranges can she buy at most?

Ans : _____

25 Measure and write down the size of ∠ a in the figure.



Ans : _____ °

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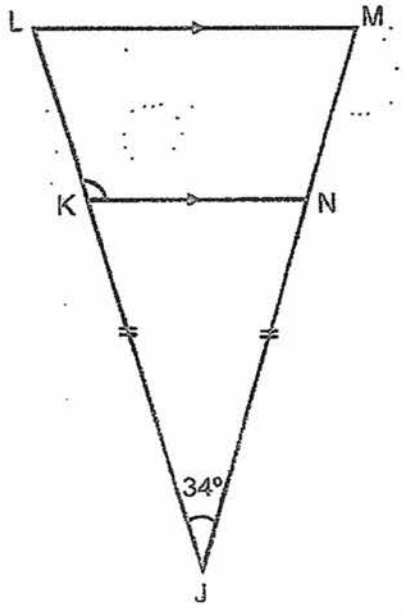
Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

Do not write in this space

26 Kate is $2n$ years old. Kate's father is 4 times as old as she.
Kate's mother is 5 years younger than Kate's father.
How old was Kate's mother when Kate was born?
Express your answer in terms of n in its simplest form.

Ans : _____ years old

27 In the figure, JLM is an isosceles triangle with JL = JM and KLMN is a trapezium. LM // KN and $\angle$ KJN = 34°. Find $\angle$ NKL.



Ans : _____

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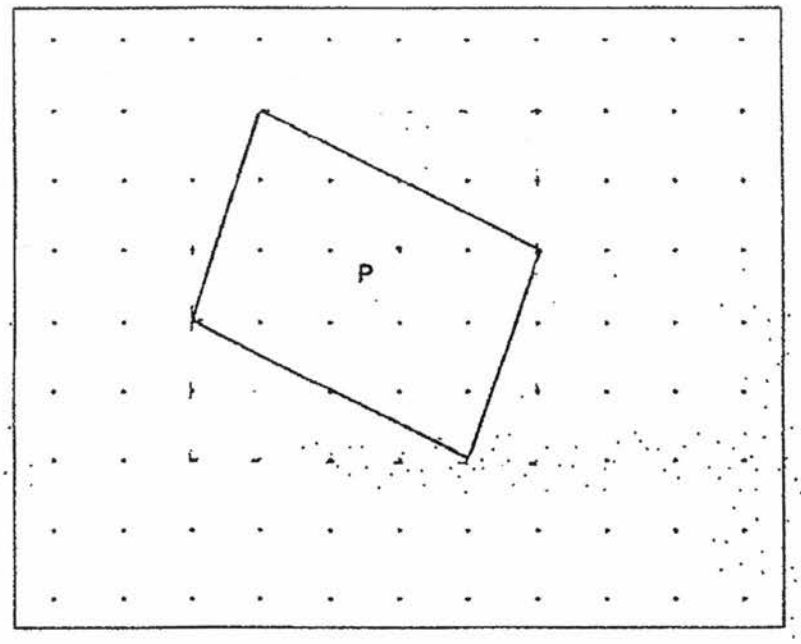
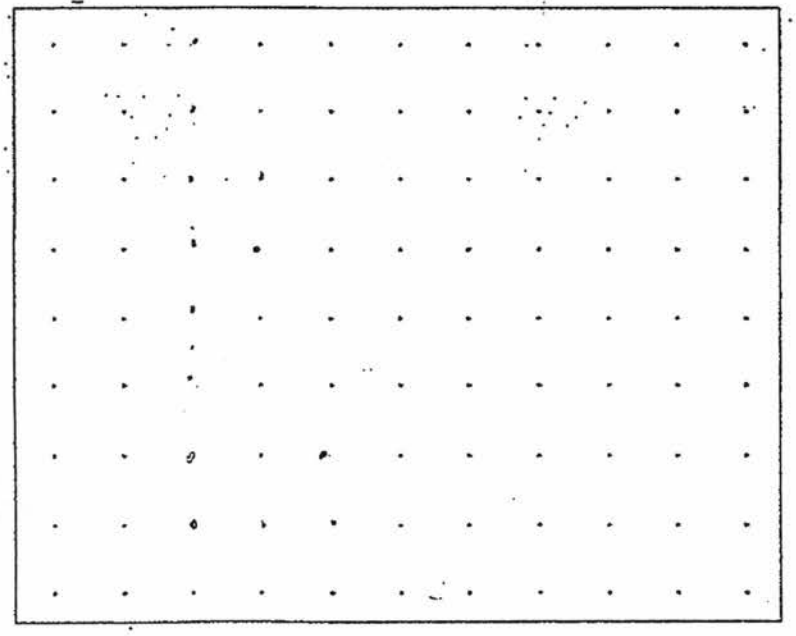
28 A parallelogram P is drawn by joining dots on the square grid below with four straight lines.

Do not write in this space



By joining dots with straight lines in the square grid below, draw a triangle with half the area of P. Label the triangle T.



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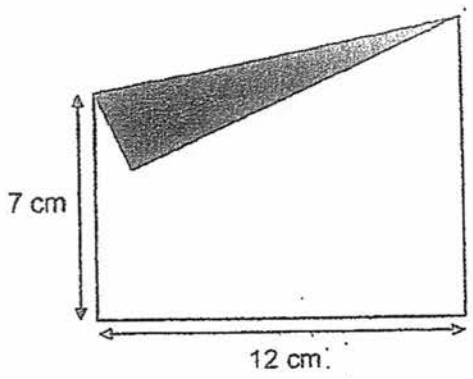
29 A rectangular piece of paper is folded as shown in the figure below. The length of the rectangle is 12 cm. The ratio of the length to the breadth of the rectangle is 4 : 3. Find the area of the shaded triangle.

Do not write in this space



Ans : _____ cm^2

30 Ming Teck gave 12 stickers to his sister and $\frac{1}{5}$ of the remainder to his brother. He was then left with $\frac{2}{3}$ of his stickers. How many stickers did he have at first?

Ans : _____

End of Paper 1

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数学 MATHEMATICS
PAPER 2

Date : 22 August 2017
Total Time : 1 h 40 min

INSTRUCTIONS TO CANDIDATES

√ Do not open this booklet until you are told to do so.
√ Follow all instructions carefully.
√ Answer all questions.
√ Write your answers in this booklet
√ The use of an approved calculator is expected, where appropriate.

This booklet consists of 15 printed pages.

School : _____

Name : _____

Class : _____

TOTAL	/ 60

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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.

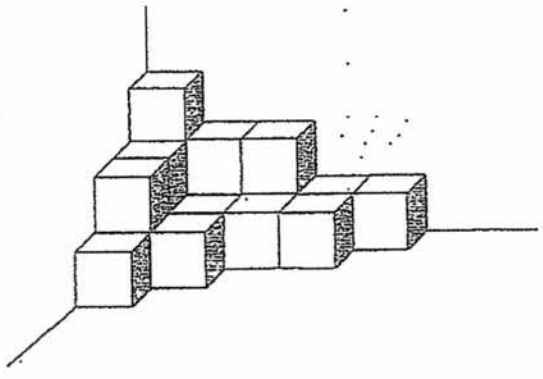
(10 marks)

Do not write in this space

1 Sara put an amount of money in a bank which pays 2% annual interest. After one year, she received $25 as interest. She did not withdraw any money from the bank. Find the total amount of money Sara had in the bank after one year.

Ans: $ _____

2 The solid below is made up of 1-cm cubes. How many more 1-cm cubes must be added to the solid to make it a cuboid with sides of 5 cm by 4 cm by 3 cm?



Ans: _____

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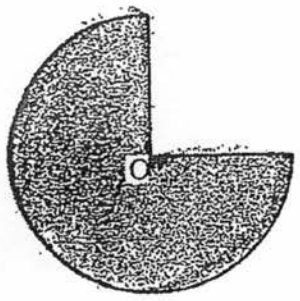
3 The figure shows a three-quarter circle with centre O and radius 60 cm. Using the calculator value of π, find the perimeter of the figure. Give your answer correct to 1 decimal place.

Do not write in this space



Ans: _____ cm

4 Square A has an area of 256 cm². Square B has an area 68 cm² more than Square A. What is the ratio of the length of Square A to the length of Square B? Give your answer in its simplest from.

Ans: _____

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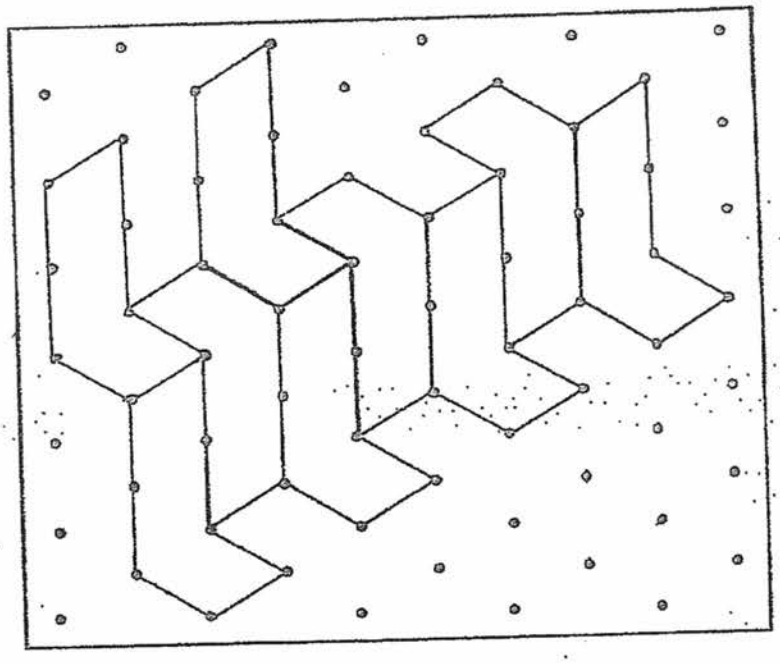
Do not write in this space.

5 Part of a tessellation is shown below.

(a) Shade one unit shape.

(b) Extend the tessellation by drawing one more unit shape within the grid.



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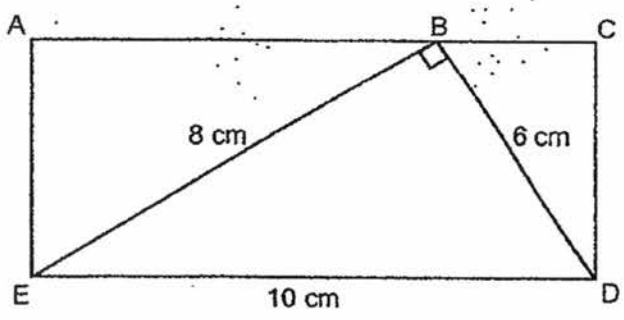
For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (50 marks)

Do not write in this space.

6 A list of 13 numbers has an average of 260 When two numbers are removed from the list, the average of the remaining numbers is 231. The difference between the two numbers that are removed is 1. What are the two numbers that have been removed?

Ans: _____ and _____. [3]

7 ACDE is a rectangle and BDE is a right-angled triangle. ED = 10 cm, BD = 6 cm and BE = 8 cm. Find the length of CD.



Ans: _____ [3]

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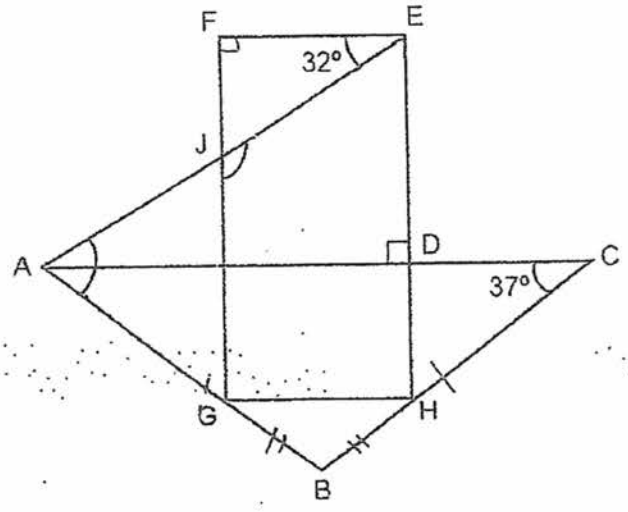
8 In the figure, EFGH is a rectangle. ABC is an isosceles triangle and ADE is a right-angled triangle. AB = BC and BG = BH. ∠ ACB = 37° and ∠ FEJ = 32°.

Find

(a) ∠ EJG

(b) ∠ JAG



Do not write in this space

Ans: (a) _____ [1]

(b) _____ [2]

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9 Debbie and Nick bought the same number of identical books at a bookstore. Debbie paid $165 for all the books she bought. Nick was given a 20% discount. With the discount, he could buy another 3 such books at the original price. What was the price of each book after discount?

Do not write in this space

Ans: _____ [3]

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