

Index  
No.

|  |  |  |  |  |  |   |  |
|--|--|--|--|--|--|---|--|
|  |  |  |  |  |  | - |  |
|--|--|--|--|--|--|---|--|

MINISTRY OF EDUCATION, SINGAPORE  
PRIMARY SCHOOL LEAVING EXAMINATION

0008/1 (A)

PSLE  
27 September 2019MATHEMATICS  
PAPER 1  
(BOOKLET A)

Additional materials: Optical Answer Sheet (OAS)

Total Time for Booklets A and B : 1 hour

**INSTRUCTIONS TO CANDIDATES**

1. Write your Index No. in the boxes at the top right hand corner.
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. The use of calculators is **NOT** allowed.



This booklet consists of 8 printed pages.

Singapore Examinations and Assessment Board

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)

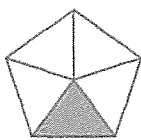
1 In the number 43.21, which digit is in the tens place?

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

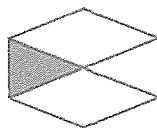
2 Which of the following is the same as 50 kg 80 g?

- (1) 5080 g
- (2) 5800 g
- (3) 50 080 g
- (4) 50 800 g

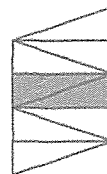
3 Which of the following shows  $\frac{1}{4}$  of the figure shaded?



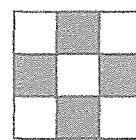
(1)



(2)



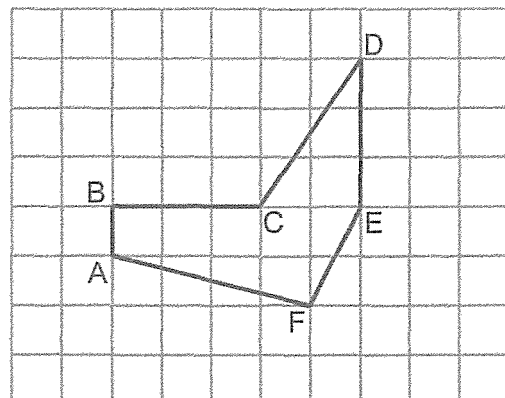
(3)



(4)

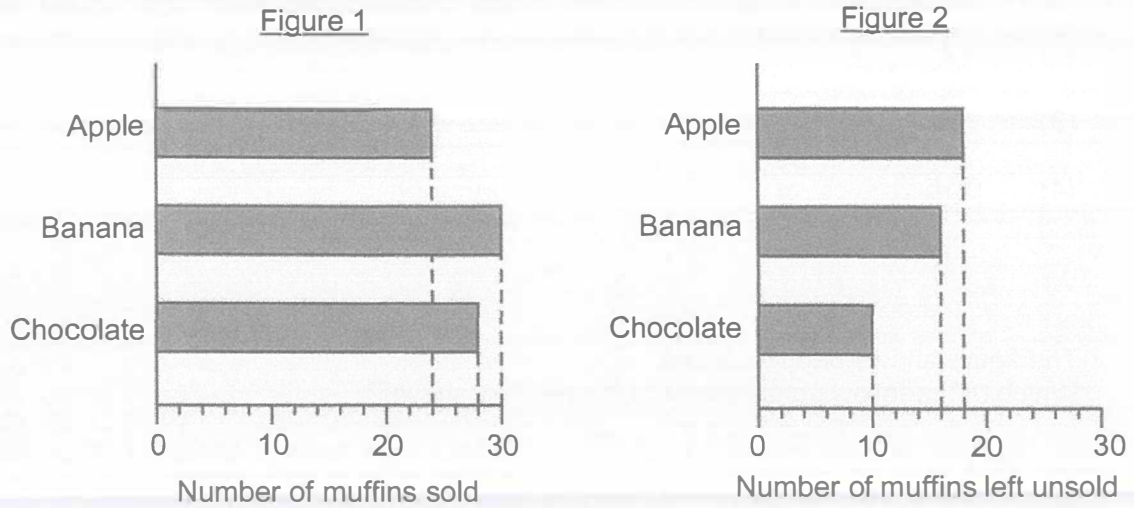
4 Which pair of lines are parallel?

- (1) AB and BC
- (2) CD and FE
- (3) ED and AB
- (4) FE and AF



Use the information below to answer Questions 5 and 6.

Jill baked some muffins to sell at a funfair. Figure 1 shows the number of muffins that was sold. Figure 2 shows the number of muffins left unsold at the end of the funfair.



**5** What was the number of chocolate muffins Jill baked?

- (1) 10
- (2) 28
- (3) 34
- (4) 38

**6** Altogether, how many apple and banana muffins were left unsold after the funfair?

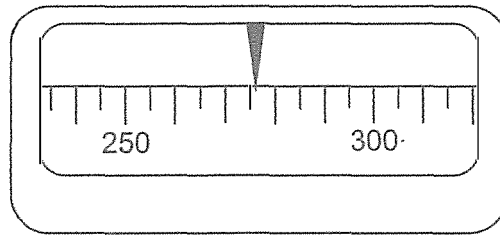
- (1) 27
- (2) 34
- (3) 44
- (4) 54

7 Express  $9\frac{1}{50}$  as a decimal.

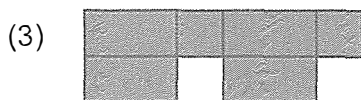
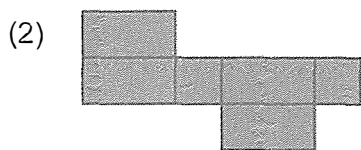
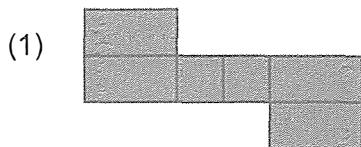
- (1) 9.1
- (2) 9.2
- (3) 9.02
- (4) 9.15

8 The figure shows part of a scale.  
Which of the following is closest to the reading shown?

- (1) 255
- (2) 260
- (3) 275
- (4) 280



9 Each figure below is made up of 4 identical rectangles and 2 identical squares. Which one has a line of symmetry?

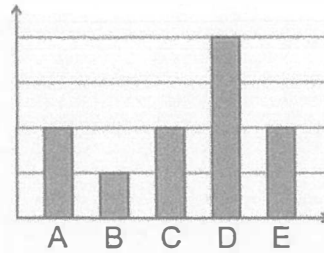


10 The table shows the points scored by 5 participants in a game.

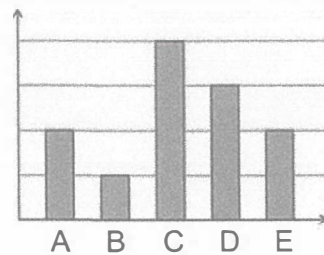
| Participants     | A  | B | C  | D  | E  |
|------------------|----|---|----|----|----|
| Number of points | 10 | 5 | 15 | 20 | 10 |

Which of the following bar graphs represents the information shown in the table above?

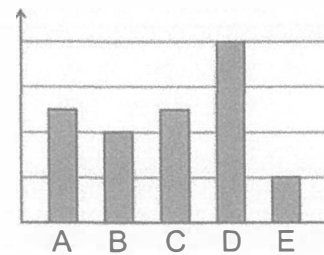
(1) Number of Points



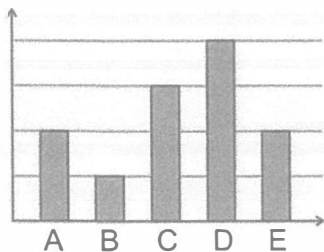
(2) Number of Points



(3) Number of Points



(4) Number of Points



- 11 At first, Ali and Bala were facing the same direction. Then Ali turned  $135^\circ$  clockwise to face West and Bala turned  $90^\circ$  anti-clockwise.

Which direction did Bala face in the end?

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

- 12 Which of the following fractions is closest to  $\frac{1}{2}$ ?

- (1)  $\frac{3}{8}$
- (2)  $\frac{4}{9}$
- (3)  $\frac{7}{12}$
- (4)  $\frac{9}{16}$

- 13 Seng kept his gold and silver stars in two boxes. The ratio of the number of gold to silver stars in the first box was 1 : 5 and it was 1 : 2 in the second box. The two boxes contained the same number of stars.

What fraction of Seng's stars were gold stars?

- (1)  $\frac{2}{7}$
- (2)  $\frac{2}{9}$
- (3)  $\frac{1}{3}$
- (4)  $\frac{1}{4}$

- 14 A table with 4 columns is filled with numbers in a certain pattern. The first 4 rows of the table are shown below.

|       | Column A | Column B | Column C | Column D |
|-------|----------|----------|----------|----------|
| Row 1 | 0        | 1        | 2        | 3        |
| Row 2 | 4        | 5        | 6        | 7        |
| Row 3 | 8        | 9        | 10       | 11       |
| Row 4 | 12       | 13       | 14       | 15       |
| ⋮     | ⋮        | ⋮        | ⋮        | ⋮        |

In which column will the number 543 appear?

- (1) Column A
- (2) Column B
- (3) Column C
- (4) Column D

- 15 Pupils in a school are put into two groups for a learning journey.  $\frac{2}{5}$  of the pupils are in Group A and the rest in Group B.  $\frac{1}{4}$  of the pupils in Group A are girls. In the school,  $\frac{3}{10}$  of the pupils are girls. What fraction of the pupils in Group B are girls?

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

The information contained in this booklet is the property of the Government of the Republic of Singapore. Action will be taken against any person who makes unauthorised release or reproduction of this information, whether in whole or in part and in whatever format.

Those seeking permission to release or reproduce this information, in whole or in part and in whatever format, must direct their request in writing to the **Chief Executive, Singapore Examinations and Assessment Board**.

Any person who comes across this booklet must return it to the **Chief Executive, Singapore Examinations and Assessment Board** without delay.

---

*Copyright Acknowledgements:*

The Singapore Examinations and Assessment Board has made every effort to trace copyright holders, but if we have inadvertently overlooked any, we will be pleased to make the necessary arrangements at the first opportunity.

Index No. 

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

 - 

|  |
|--|
|  |
|--|

 MINISTRY OF EDUCATION, SINGAPORE  
 PRIMARY SCHOOL LEAVING EXAMINATION

**0008/1 (B)**
**PSLE**  
**27 September 2019**

**MATHEMATICS**  
**PAPER 1**  
**(BOOKLET B)**

**Total Time for Booklets A and B : 1 hour**

**INSTRUCTIONS TO CANDIDATES**

1. Write your Index No. in the boxes at the top right hand corner.
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. The use of calculators is **NOT** allowed.

**FOR MARKERS' USE**

| Question No. | Marker ID |          |
|--------------|-----------|----------|
|              | Marker 1  | Marker 2 |
| 16 – 20      |           |          |
| 21 – 23      |           |          |
| 24 – 25      |           |          |
| 26 – 27      |           |          |
| 28 – 29      |           |          |
| 30           |           |          |

**FOR CSM / SM / ASM's USE**

| Supervisor ID / Signature |
|---------------------------|
|                           |

**FOR RECORDER'S USE**

| Total Mark | Max Mark | Recorder ID / Signature |
|------------|----------|-------------------------|
|            | 25       |                         |

This booklet consists of 8 printed pages.



Singapore Examinations and Assessment Board

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)

Do not write  
in this space

16 Find the value of  $1056 - 68$

Ans: \_\_\_\_\_

17 Find the value of  $230 \times 16$

Ans: \_\_\_\_\_

18 Find the value of  $3.47 + 6.8$

Ans: \_\_\_\_\_

19 Find the value of  $0.49 \times 1000$

Ans: \_\_\_\_\_

20 Find the value of  $3.5 \div 200$

Ans: \_\_\_\_\_

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)

Do not write in this space

- 21 5000 ml of water was poured into 4 containers equally.  
How many litres of water were there in one container?

Ans: \_\_\_\_\_ l

- 22 Find the value of the following when  $y = 3$ .

(a)  $15 + 2y$

(b)  $y - \frac{5}{9}$

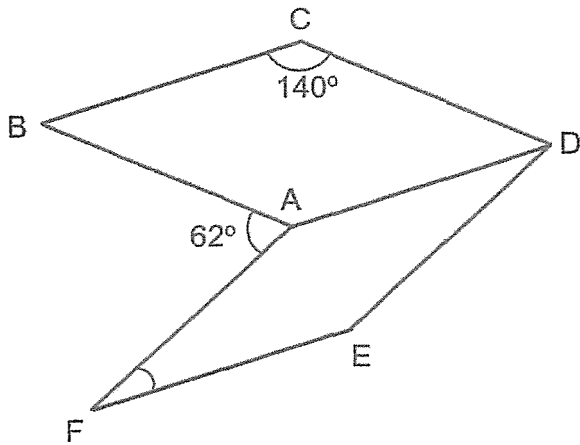
Ans:(a) \_\_\_\_\_

(b) \_\_\_\_\_

- 23 Xinyi is 1.5 m tall. She is 4 cm taller than her brother.  
What is her brother's height in metres?

Ans: \_\_\_\_\_ m

- 24 In the figure below, ABCD and ADEF are rhombuses. Find  $\angle EFA$ .



Do not write  
in this space

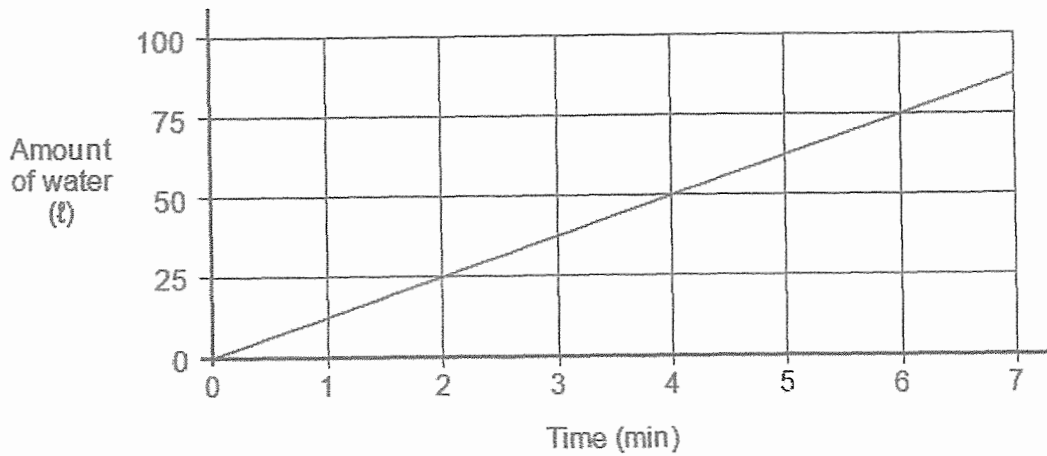
Ans: \_\_\_\_\_ °

- 25 Khalid took 20 min to walk 840 m. What was his average speed in km/h?

Ans: \_\_\_\_\_ km/h

- 26 The graph shows the amount of water that flows from a tap.

Do not write  
in this space



At this rate, how many litres will flow from the tap in 32 minutes?

Ans: \_\_\_\_\_ ℓ

- 27 A bottle completely filled with water weighed 2.1 kg. After  $\frac{2}{3}$  of the water was used up, the bottle with the remaining water weighed 800 g.
- What was the mass of the empty bottle in grams?

Ans: \_\_\_\_\_ g

- 28** Amy bought some packets of stickers. Each packet contained 9 stickers. The total number of stickers Amy bought was fewer than 60.

Amy kept 3 stickers for herself and gave the rest equally to her 7 cousins.

- (a) How many stickers did Amy buy?
- (b) How many stickers did Amy give to each cousin?

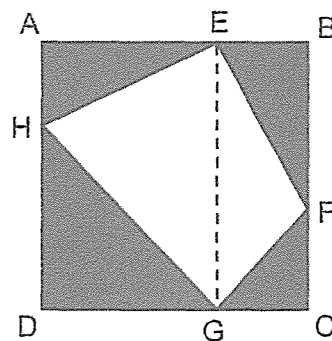
Do not write  
in this space

Ans:(a) \_\_\_\_\_

(b) \_\_\_\_\_

- 29** ABCD is a square of side 12 cm. It is formed from two rectangles AEGD and EBCG. H is a point on AD and F is a point on BC.

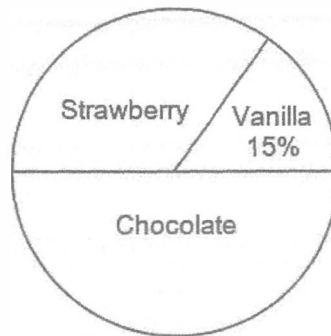
Find the area of EFGH.



Ans: \_\_\_\_\_ cm<sup>2</sup>

- 30 A group of pupils were asked to choose one ice cream flavour from Strawberry, Vanilla and Chocolate. The pie chart represents the pupils' choices. Half of the group chose Chocolate.

Do not write  
in this space



- (a) What percentage of the group chose Strawberry?
- (b) The pupils' choices were also represented by a bar graph. Part of the graph had been torn off.

How many pupils chose Vanilla?



Ans: (a) \_\_\_\_\_ %

(b) \_\_\_\_\_



End of Paper

The information contained in this booklet is the property of the Government of the Republic of Singapore. Action will be taken against any person who makes unauthorised release or reproduction of this information, whether in whole or in part and in whatever format.

Those seeking permission to release or reproduce this information, in whole or in part and in whatever format, must direct their request in writing to the **Chief Executive, Singapore Examinations and Assessment Board**.

Any person who comes across this booklet must return it to the **Chief Executive, Singapore Examinations and Assessment Board** without delay.

---

*Copyright Acknowledgements:*

The Singapore Examinations and Assessment Board has made every effort to trace copyright holders, but if we have inadvertently overlooked any, we will be pleased to make the necessary arrangements at the first opportunity.

Index  
 No.

|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|

 MINISTRY OF EDUCATION, SINGAPORE  
 PRIMARY SCHOOL LEAVING EXAMINATION

**0008/2**
**PSLE**

27 September 2019

**MATHEMATICS  
 PAPER 2**

Time : 1 h 30 min

**INSTRUCTIONS TO CANDIDATES**

1. Write your Index No. in the boxes at the top right hand corner.
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. The use of an approved calculator is allowed.

**FOR MARKERS' USE**

| Question<br>No. | Marker ID |          |
|-----------------|-----------|----------|
|                 | Marker 1  | Marker 2 |
| 1               |           |          |
| 2               |           |          |
| 3               |           |          |
| 4               |           |          |
| 5               |           |          |
| 6               |           |          |
| 7               |           |          |
| 8               |           |          |
| 9               |           |          |
| 10              |           |          |
| 11              |           |          |
| 12              |           |          |
| 13              |           |          |
| 14              |           |          |
| 15              |           |          |
| 16              |           |          |
| 17              |           |          |

**FOR CSM / SM / ASM's USE**

| Supervisor ID / Signature |
|---------------------------|
|                           |

**FOR RECORDER'S USE**

| Total<br>Mark | Max<br>Mark | Recorder ID /<br>Signature |
|---------------|-------------|----------------------------|
|               | 55          |                            |



Singapore Examinations and Assessment Board

This booklet consists of 16 printed pages.

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)

Do not write in this space

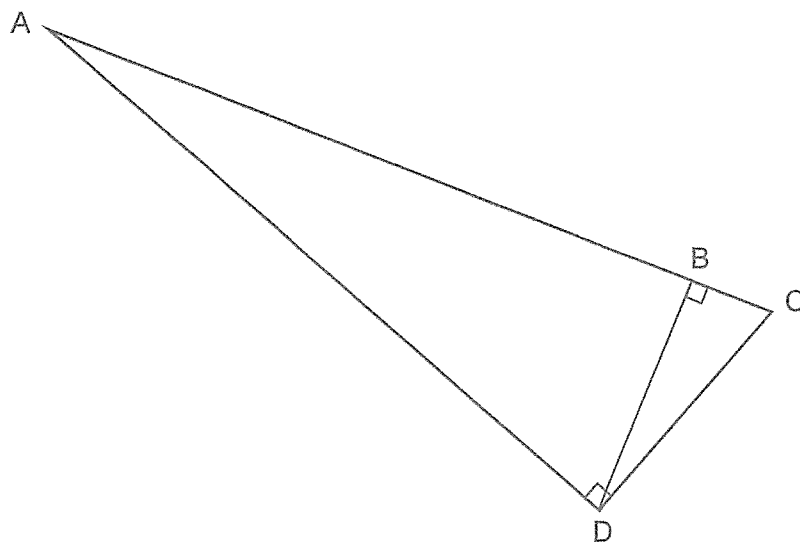
1 Write down

- (a) the first common multiple of 4 and 10.
- (b) all the common factors of 18 and 81.

Ans: (a) \_\_\_\_\_

(b) \_\_\_\_\_

2 In the figure, ACD and BCD are right-angled triangles. By measuring a base and a height, find the area of triangle ABD. Give your answer to 1 decimal place.



Ans: \_\_\_\_\_ cm<sup>2</sup>

- 3 Mr Rajah started walking from home at 8.50 a.m. to the market, which was 900 m away. He walked at 75 m/min. At what time did he reach the market?

Do not write  
in this space

Ans: \_\_\_\_\_

- 4 Siti had a rectangular piece of paper, 35 cm by 24.6 cm. She cut out as many squares as possible from the paper. The side of each square was 5 cm.

- (a) What area of the paper was left?  
(b) How many squares did Siti cut out?

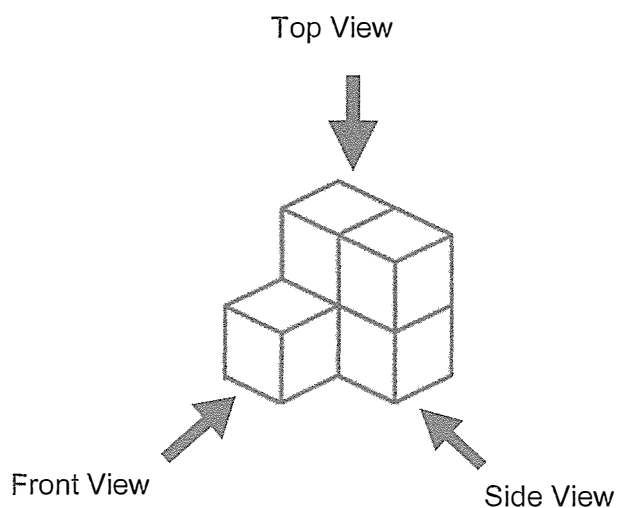
Ans: (a) \_\_\_\_\_  $\text{cm}^2$

(b) \_\_\_\_\_

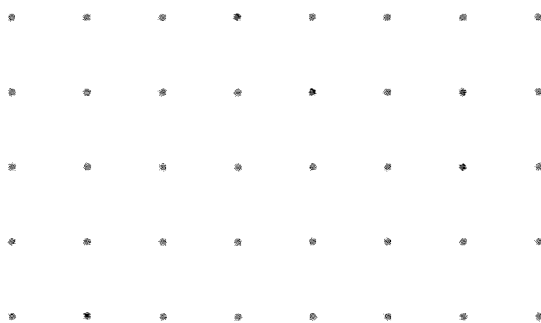
- 5 The solid below is made up of 5 cubes.

Do not write  
in this space

- (a) Draw the front view of the solid on the grid below.



Front View



- (b) Suzy painted the whole solid including the base. Then she took it apart into its 5 cubes. What is the total number of faces that are **not** painted?

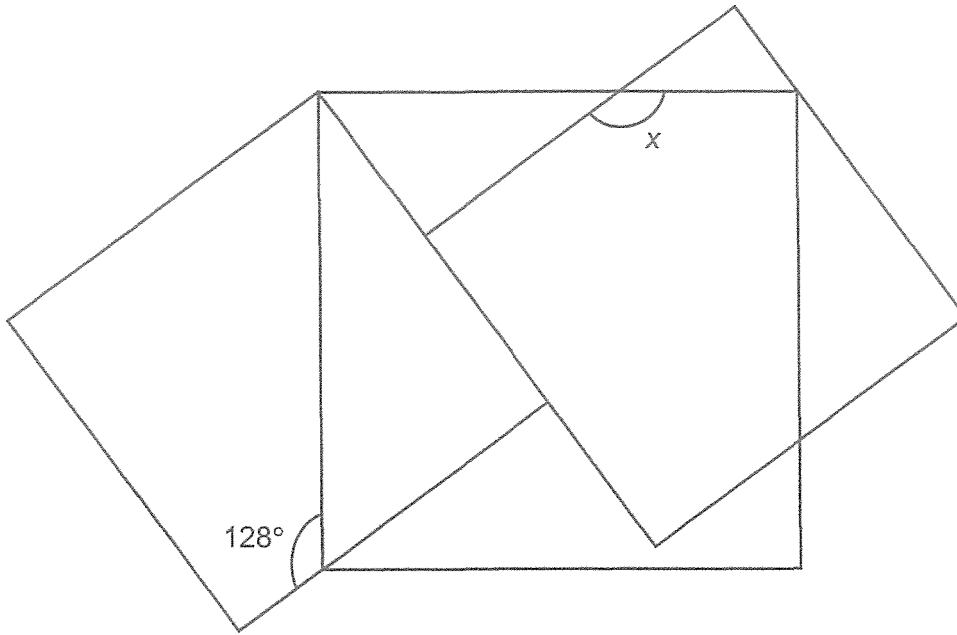
Ans: (b) \_\_\_\_\_



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 The figure is made up of 3 squares. Find  $\angle x$ .

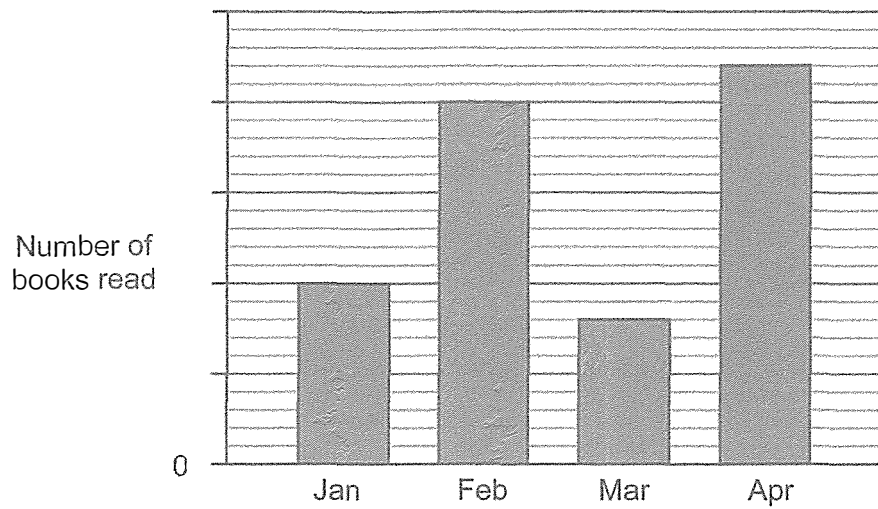


Ans: \_\_\_\_\_ [3]



- 7 The bar graph shows the number of books read by Class 6A from January to April. The number of books read is not shown on the scale.

Do not write  
in this space



- (a) What was the percentage increase in the number of books read from January to February?
- (b) The average number of books read in a month from January to April was 75. How many books did Class 6A read in April?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]

- 8 A box contained black beads and white beads. At first, the number of black beads was  $\frac{1}{3}$  the number of white beads. After  $\frac{1}{4}$  of the black beads and  $\frac{3}{8}$  of the white beads were used, 63 beads were left.

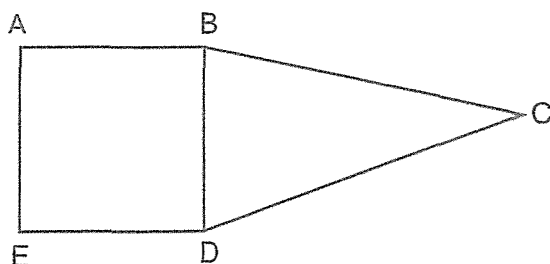
Do not write  
in this space

- (a) What fraction of the beads were used?  
Leave your answer in the simplest form.
- (b) How many beads were there in the box at first?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]

- 9 The perimeter of figure ABCDE is  $(10p + 11)$  cm. The perimeter of square ABDE is 12 cm.



- (a) Find the perimeter of triangle BCD in terms of  $p$ .
- (b) The perimeter of figure ABCDE is 31 cm. What is the value of  $p$ ?

Do not write  
in this space

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [1]

- 10 At first, the ratio of the number of boys to the number of girls in a chess club was 4 : 1. After 6 boys and 6 girls joined the club, the ratio became 3 : 1.

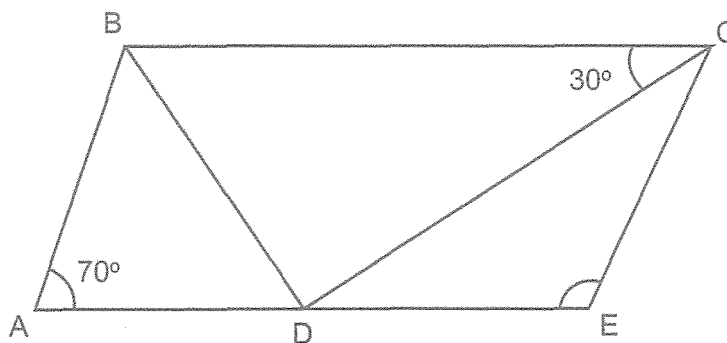
- (a) Did the percentage of members who are boys increase, decrease or remain the same? Show your working clearly.
- (b) In the end, how many boys were there in the club?

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [2]

- 11 ABCD is a trapezium,  $EC = ED$  and ADE is a straight line.

Do not write  
in this space



- (a) Find  $\angle CED$ .

Ans: (a) \_\_\_\_\_ [2]

- (b) The figure above is not drawn to scale. Each of the statements below is either true, false or not possible to tell from the information given. For each statement, put a tick ( $\checkmark$ ) to indicate your answer.

| Statement                      | True | False | Not possible to tell |
|--------------------------------|------|-------|----------------------|
| ABD is an equilateral triangle |      |       |                      |
| ABCE is a parallelogram        |      |       |                      |
| BD is perpendicular to DC      |      |       |                      |

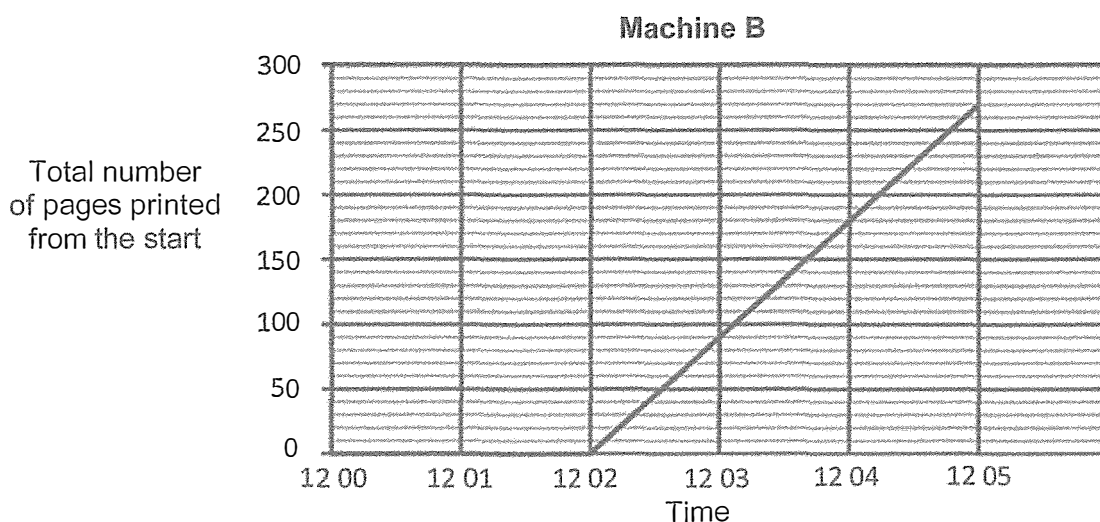
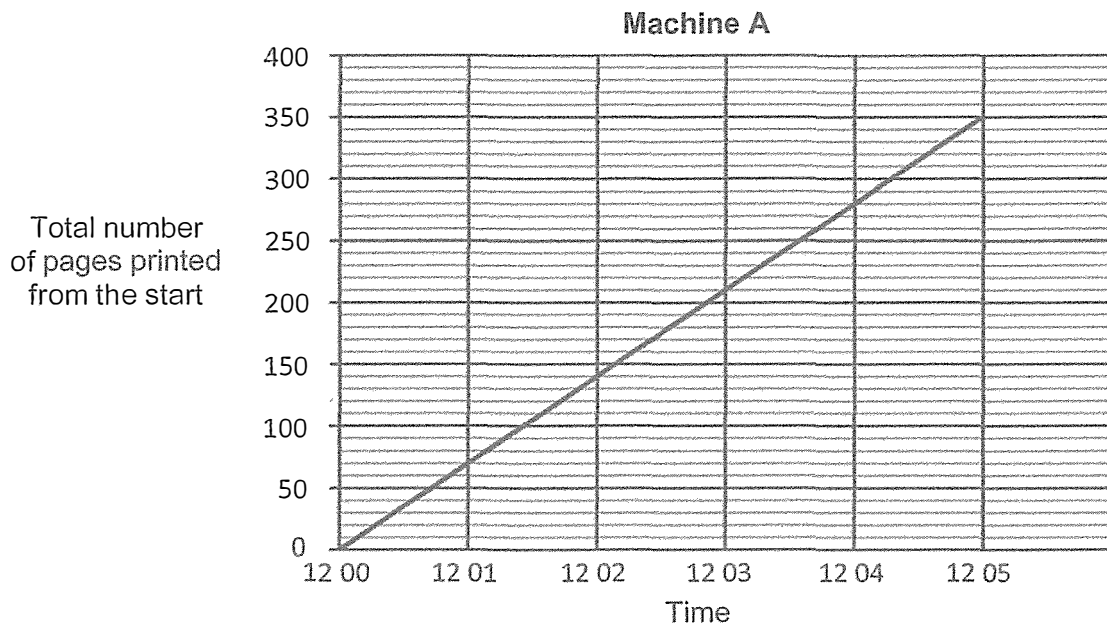
[2]



- 12** Mr Lim used two machines with different printing rates for a printing job. He started Machine A at 12 00 and started Machine B two minutes later. He stopped both machines at 12 05.

Do not write  
in this space

The graphs below show the total number of pages printed by each machine from the start of printing.



- (a) How many pages had been printed by Machine A at the time Mr Lim started Machine B?
- (b) What was the total number of pages printed by the two machines from 12 00 to 12 05?
- (c) Which machine, A or B, has a faster printing rate? What is the difference in the number of pages printed by the machines in one minute?

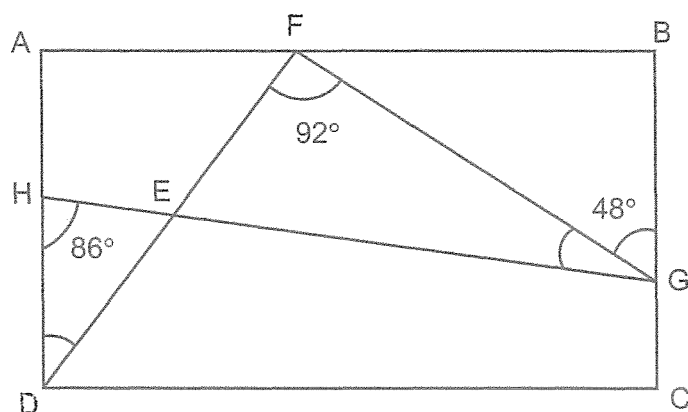
Do not write  
 in this space

Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [1]

(c) Machine: \_\_\_\_\_, \_\_\_\_\_ [2]

- 13 In the figure below, ABCD is a rectangle. The points F, G, and H lie on the rectangle ABCD. DEF and HEG are straight lines. DEF and HEG are straight lines.


 (a) Find  $\angle FGE$ .

 (b) Find  $\angle EDH$ .

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

- 14 Kevin and Julie bought some egg tarts. Each of them spent \$61.20. Julie got 6 more egg tarts than Kevin because she used a coupon that gave her a 15% discount.

- (a) How many egg tarts did Julie get?
- (b) What was the price of each egg tart without the discount?

Do not write  
in this space

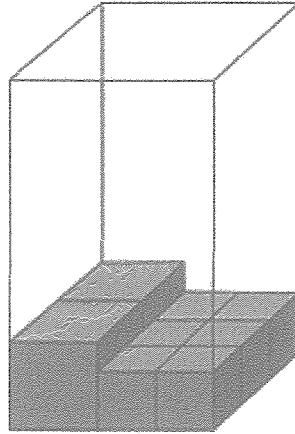
Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

- 15** Jack has 8 identical large cubes and some identical small cubes. He packs all the cubes tightly into a rectangular box such that cubes of the same size are stacked on top of each other. The box is filled to its brim exactly.

Do not write  
in this space

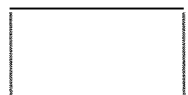
The figure below shows the first layer of cubes packed in the box.



- (a) How many small cubes does Jack have?
- (b) The volume of the box is  $4032 \text{ cm}^3$ . The total volume of the 8 large cubes is  $\frac{3}{7}$  of the volume of the box. What is the length of one edge of the small cube?

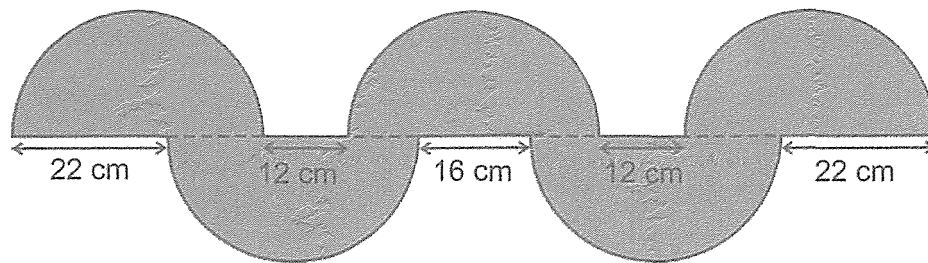
Ans: (a) \_\_\_\_\_ [1]

(b) \_\_\_\_\_ [3]



- 16 The figure is formed by 5 identical semicircles.

Do not write  
in this space



- (a) What is the diameter of each semicircle?
- (b) Use the calculator value of  $\pi$  to find the perimeter of the figure. Round your answer to 2 decimal places.

Ans: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [3]

- 17 The first four figures of a pattern are shown below.

Do not write  
in this space



Figure 1

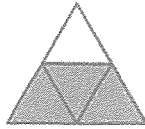


Figure 2

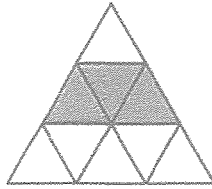


Figure 3

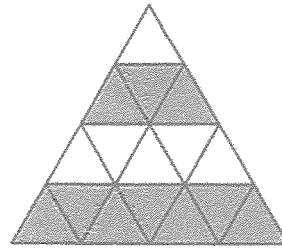


Figure 4

The table shows the number of white and grey triangles used for each figure.

| Figure Number             | 1 | 2 | 3 | 4  | 5 |
|---------------------------|---|---|---|----|---|
| Number of white triangles | 1 | 1 | 6 | 6  |   |
| Number of grey triangles  | 0 | 3 | 3 | 10 |   |

[1]

- (a) Fill in the table for Figure 5.
- (b) What is the total number of white and grey triangles in Figure 250?
- (c) In Figure 250, what percentage of the triangles are grey?

Ans: (b) \_\_\_\_\_ [1]

(c) \_\_\_\_\_ [3]

End of Paper

The information contained in this booklet is the property of the Government of the Republic of Singapore. Action will be taken against any person who makes unauthorised release or reproduction of this information, whether in whole or in part and in whatever format.

Those seeking permission to release or reproduce this information, in whole or in part and in whatever format, must direct their request in writing to the **Chief Executive, Singapore Examinations and Assessment Board**.

Any person who comes across this booklet must return it to the **Chief Executive, Singapore Examinations and Assessment Board** without delay.

---

*Copyright Acknowledgements:*

The Singapore Examinations and Assessment Board has made every effort to trace copyright holders, but if we have inadvertently overlooked any, we will be pleased to make the necessary arrangements at the first opportunity.