

HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET A)

Mamaa	, ,	1
Name:		1
		,

Parent's Signature

Class: Primary 6_____

Marks:

Atri 170.		
	Booklet A	20
Paper 1	Booklet B	25
Paper 2	•	55
Total		100

Total Time for Booklets A and B: 1 hour

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions. Shade your answers in the Optical Answer Sheet (OAS) provided.

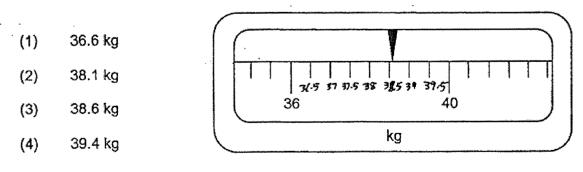
You are not allowed to use a calculator.

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 in the Optical Answer Sheet.

(20 marks)

1	Round	21.356 to the nearest tenth.
	(1)	20.0
	(2)	21.0
	(3)	21.3
	(4)	21.4
2	Find th	ne value of 6 + 12 + 3 × 2
	(1)	12
	(2)	14
	(3)	3
	(4)	20
3	Which	one of the following is closest to the reading shown on the weighing scale

Which one of the following is closest to the reading shown on the weighing scale below?



Page 1

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Express 25 seconds as a fraction of 2 minutes.

(1) $\frac{1}{8}$ (2) $\frac{2}{25}$ (3) $\frac{5}{12}$ (4) $\frac{5}{24}$

5 Which two lines are perpendicular to each other?

- (1) BE and CD
- (2) FA and FD
- (3) FD and BE

FD and FE

(4)

6

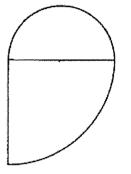
- Ravi has $\frac{3}{4}$ as many stamps as Peter. Find the ratio of the number of stamps Peter has to the total number of stamps the two boys have.
 - (1) 3:4
 - (2) 3:7
 - (3) 4:3
 - (4) 4:7

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- 7 Ken cycled along a track from 5.30 p.m. to 6.50 p.m. Lee cycled along the same track from 5.40 p.m. to 7.20 p.m. How much longer did Lee cycle than Ken?
 - (1) 10 min
 - (2) 20 min
 - (3) 30 min
 - (4) 40 min
- 8 The figure is made up of a quarter circle of radius 8 cm and a semicircle. Find the area of the semicircle.
 - (1) $32\pi \text{ cm}^2$
 - (2) $16\pi \text{ cm}^2$
 - (3) $8\pi \text{ cm}^2$
 - (4) $4\pi \text{ cm}^2$



9 Arrange the following distances from the longest to the shortest.

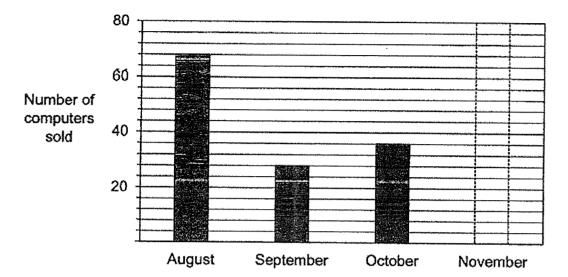
	9.45	km	9 km 95 m	$9\frac{3}{5}$ km
	Longest		Shortest	
(1)	9 <mark>3</mark> km,	9.45 km,	9 km 95 m	
(2)	9 <mark>3</mark> km,	9 km 95 m,	9.45 km	
(3)	9.45 km,	$9\frac{3}{5}$ km,	9 km 95 m	
(4)	9 km 95 m,	9.45 km,	9 <mark>3</mark> km	

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Use the information below to answer Questions 10 and 11.

The bar graph below shows the number of computers sold in each month from August to November. The bar for the number of computers sold in November has not been drawn.



10 How many computers did the shop sell altogether in August and September?

- (1) 80
- (2) 84
- (3) 90
- (4) 96

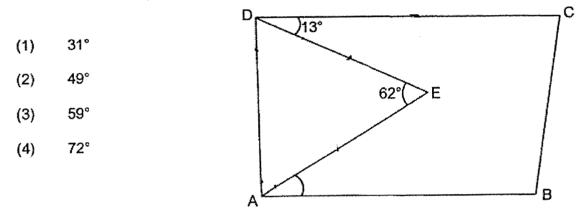
11 The number of computers sold in November was a 25% increase from the number of computers sold in October. How many computers were sold in November?

- (1) 9
- (2) 27
- (3) 45
- (4) 63

Page 4

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- At first, there were 60 red apples and 40 green apples in a basket. Mrs Lim then sold 10% of the red apples and 25% of the green apples. What percentage of the apples in the basket did she have left?
 - (1) 16%
 - (2) 35%
 - (3) 65%
 - (4) 84%
 - 13 In the figure below, ABCD is a trapezium where CD is parallel to AB. Given that AE = DE, find $\angle EAB$.



- 14 At first, Alex and Melissa were facing the same direction. Then, Melissa turned 225° anti-clockwise to face East and Alex turned 90° clockwise. Which direction did Alex face in the end?
 - (1) North-East

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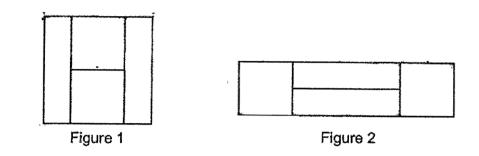
- (2) North-West
- (3) South-East
- (4) South-West

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15 Maliki cut a square piece of paper measuring 12 cm in length into 2 pieces of squares and 2 pieces of rectangles as shown in Figure 1. He arranged the pieces to form a big rectangle as shown in Figure 2. What is the perimeter of the big rectangle in Figure 2?



- (1) 48 cm
- (2) 60 cm
- (3) 108 cm
- (4) 144 cm

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(Go on to BOOKLET B)



HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 1 (BOOKLET B)

Name: _____()

Class: Primary 6_____

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Total Time for Booklets A and B: 1 hour

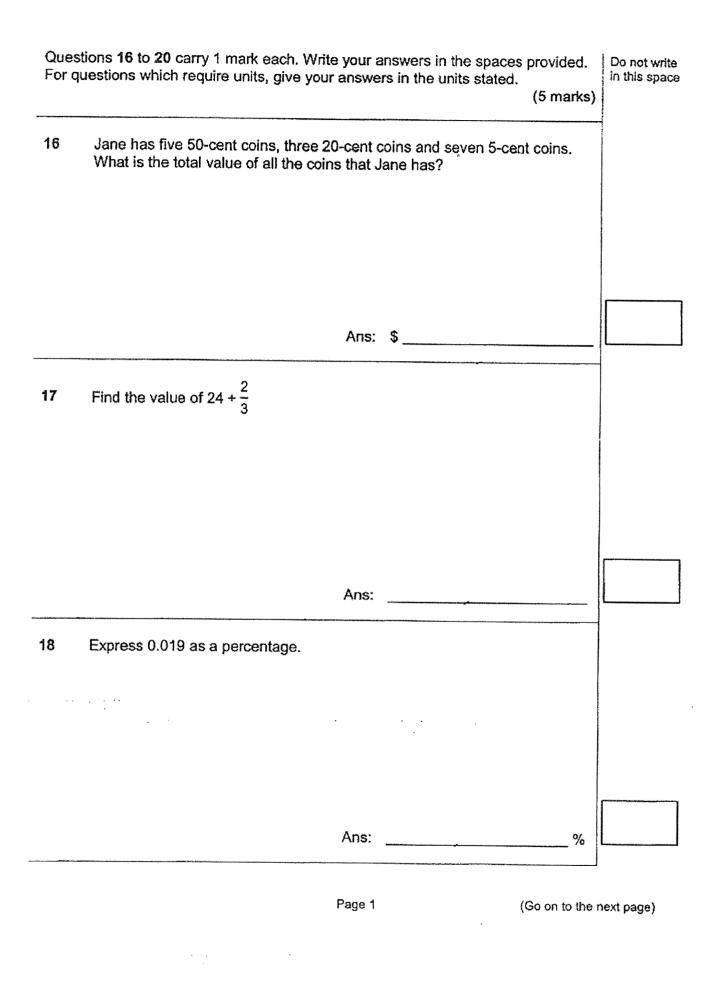
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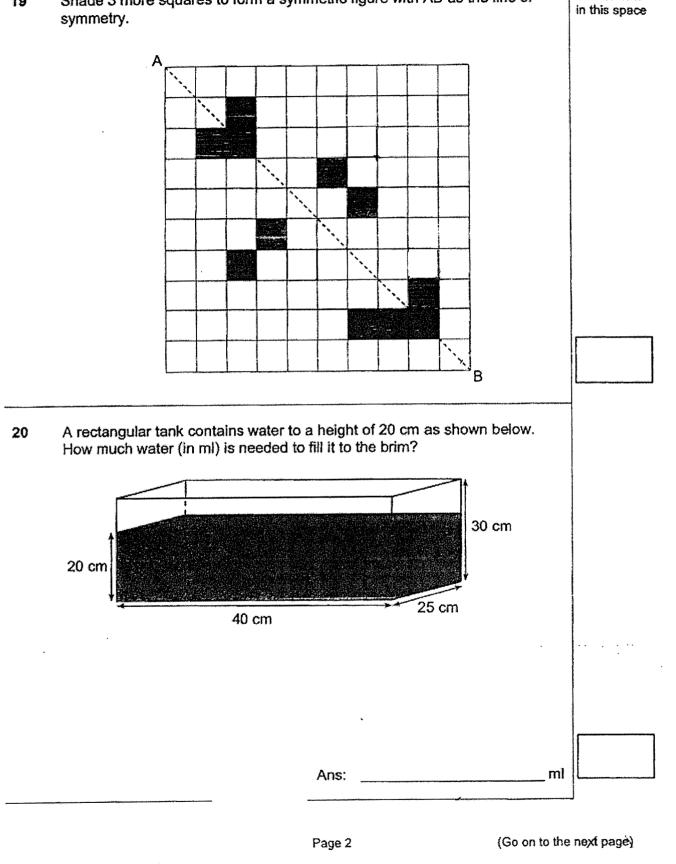
Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

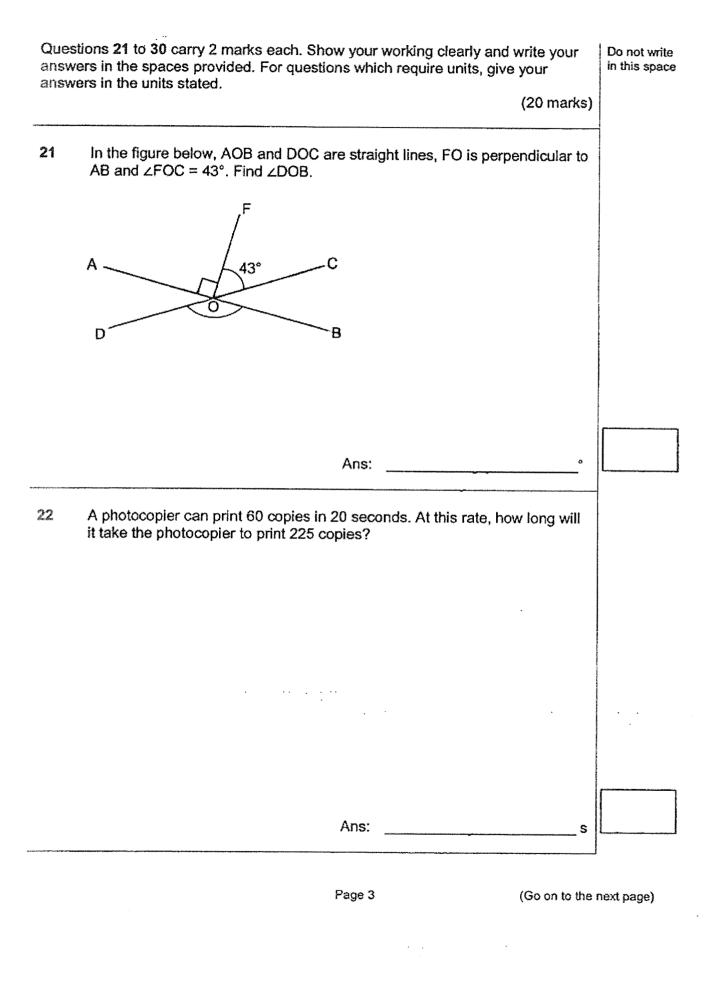
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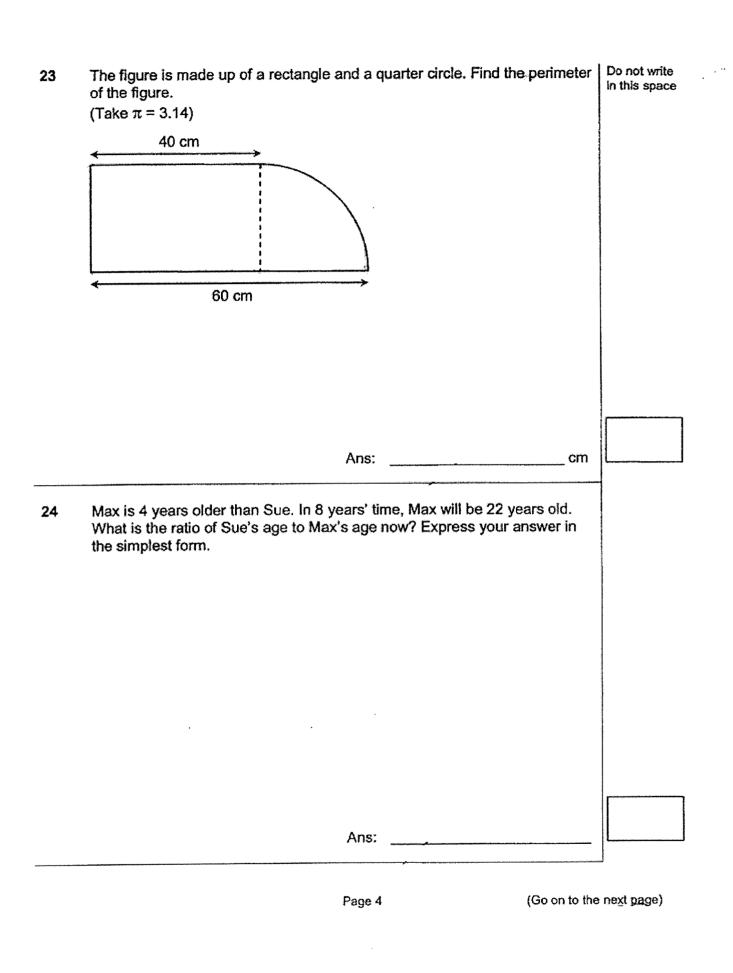


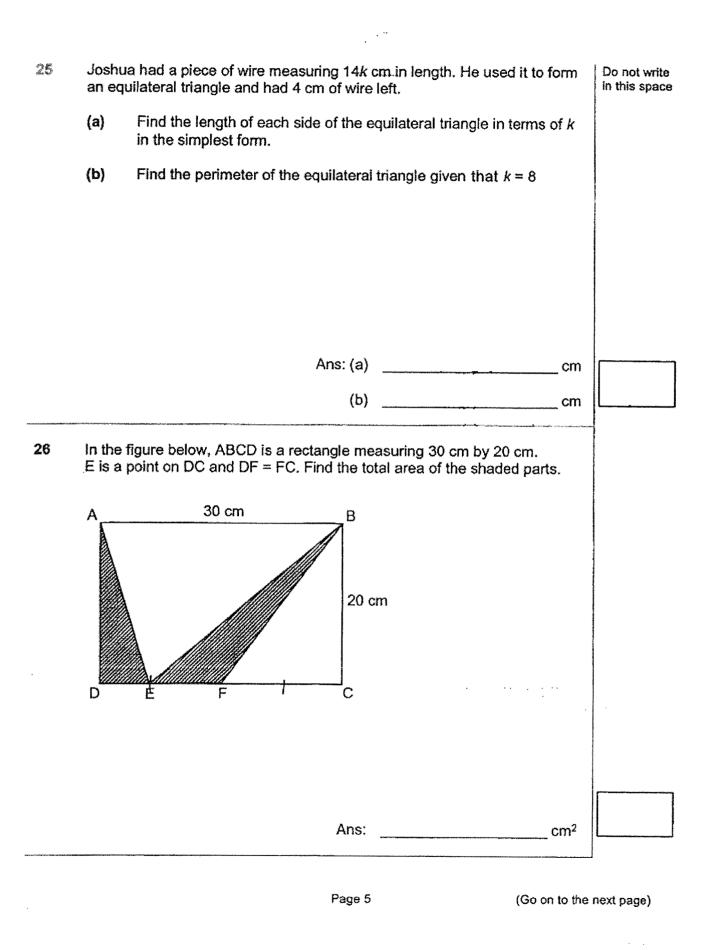


Shade 3 more squares to form a symmetric figure with AB as the line of 19

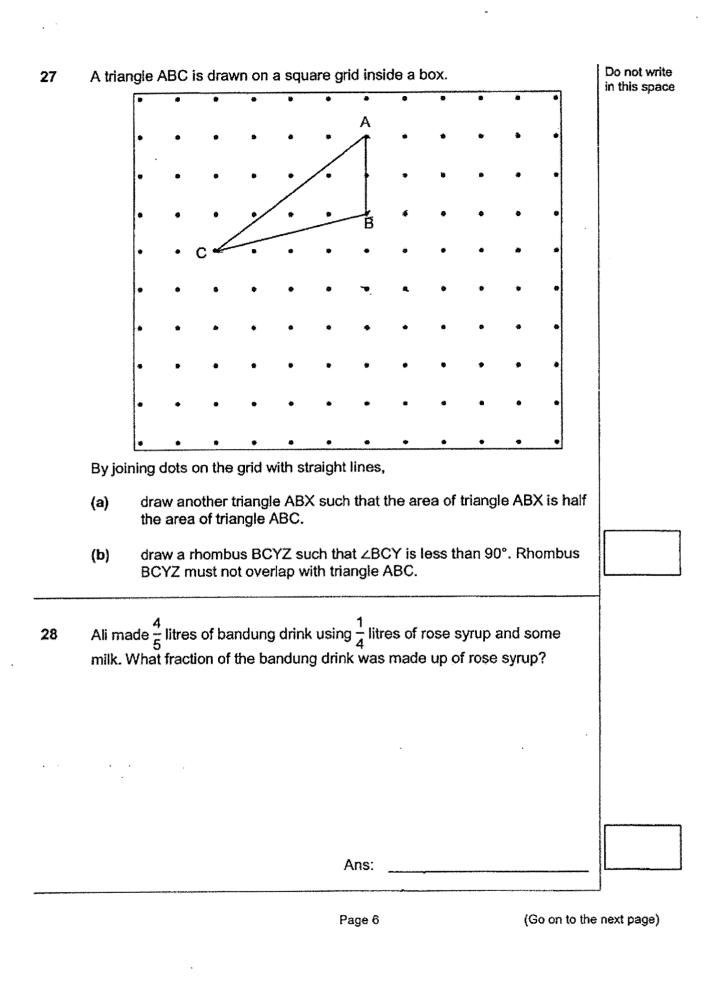
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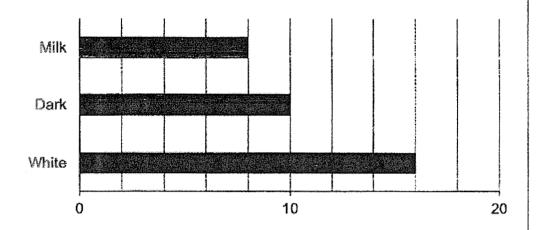
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29 Chocolates are sold at the prices shown below.

Type of chocolate	Price per packet of chocolates
Dark	\$2.50
White	\$2.00
Milk	\$1.20

The bar graph shows the number of packets of each type of chocolate that Noah bought.



Find the total amount of money that Noah spent on the chocolates.

Ans: \$.____

Page 7

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Do not write in this space 30 At first, chairs in a hall were arranged in rows of 12. Then, 57 more chairs were brought in and all the chairs were rearranged into rows of 21. In the end, there were 5 fewer rows. How many rows of chairs were there in the hall in the end?

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Ans: _____

Page 8 End of Paper 1

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HENRY PARK PRIMARY SCHOOL 2021 PRELIMINARY EXAMINATION MATHEMATICS PRIMARY 6

PAPER 2

Parent's Signature

Name: _____ ()

Class: Primary 6_____



Time for Paper 2: 1 hour 30 minutes

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

answe	ions 1 to 5 carry 2 marks each. Show your working clearly and write your ers in the spaces provided. For questions which require units, give your ers in the units stated. (10 marks)	Do not write in this space
1	A bag of 6 pears cost \$3w. Damon bought 54 pears and had \$42 left. Given that he had \$150 at first, find the value of w.	
	Ans:	
2	The figure shows a parallelogram PQRS and a right-angled triangle PUT. Given that PUQ and PTS are straight lines and \angle STU = 137°, find \angle PQR.	
	P U Q T J 137° T J 137° R Ans:°	
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The table below shows the charges for using the facilities in a gym.

Duration	Charges
1 st hour	\$8.00
Every additional $\frac{1}{2}$ hour or less	\$3.50

Leroy used the facilities in the gym from 9.30 a.m. to 12.30 p.m. How much did he pay?

Ans: \$_____

4 The scores for Jaden's first three games in Round 1 are shown below.

Round 1	
Game	Marks
1st	78
2 nd	106
3rd	85
4 th	?

Jaden will move on to Round 2 if his average score of the four games in Round 1 is 95 or more. What is the lowest score Jaden must get in the 4th game to move on to Round 2?

Ans:

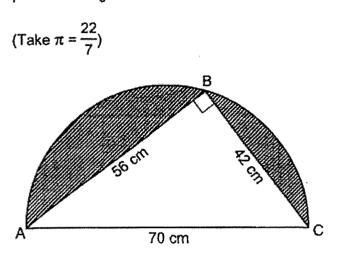
Page 2

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3

Do not write in this space 5 The figure is made up of a right-angled triangle and a semicircle. Given that AC = 70 cm, AB = 56 cm and BC = 42 cm, find the total area of the shaded parts of the figure.



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cm²

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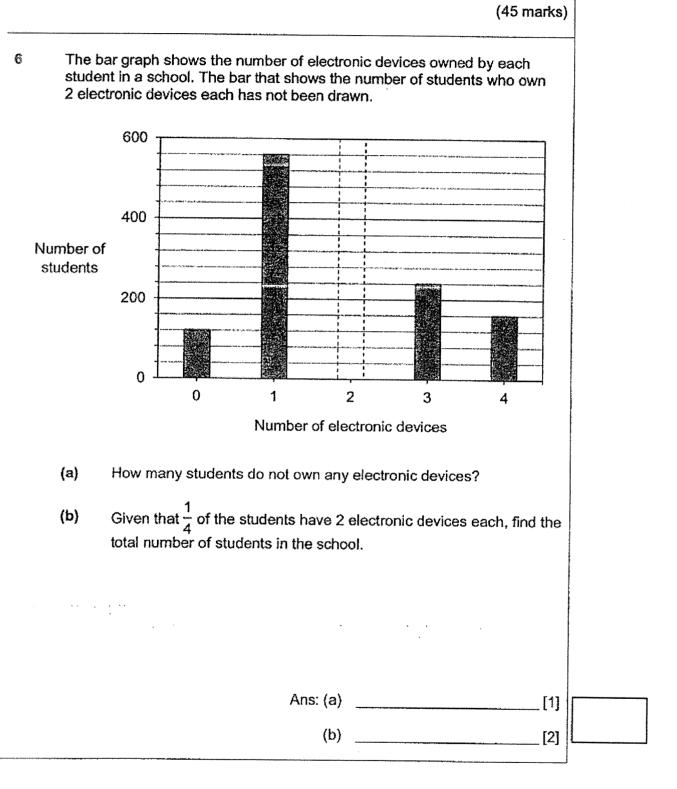
Page 3

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 the brackets [] at the end of each question or part-question.

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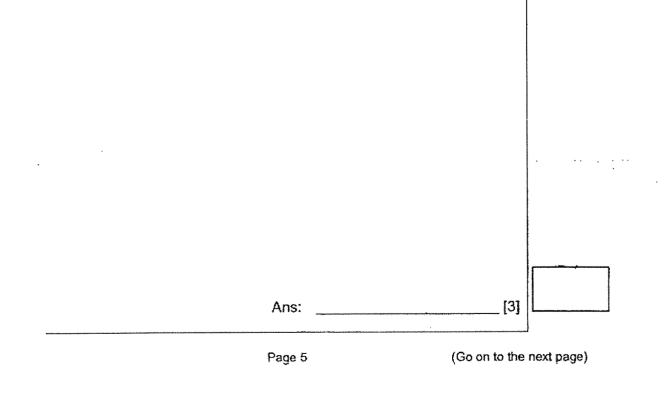
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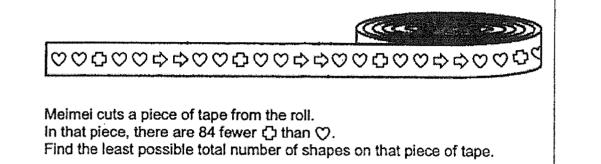
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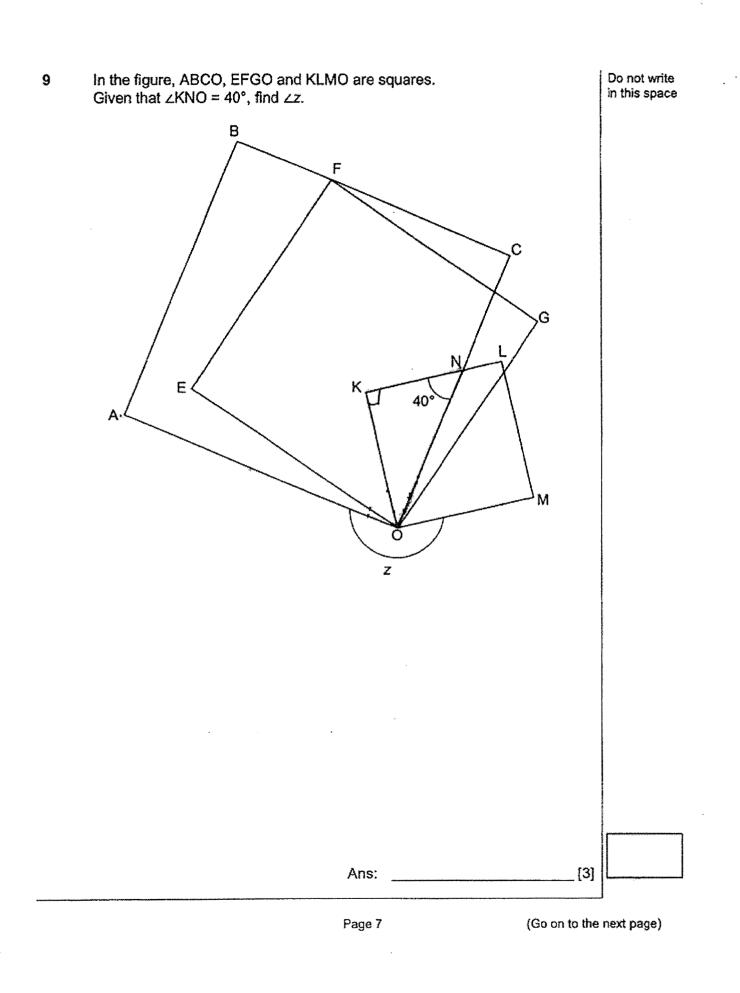
7 Cheryl spent \$2016 in July. This amount was a 10% decrease from what she spent in June. The amount she spent in June was a 20% decrease from what she spent in May. How much did Cheryl spend in May? Do not write in this space



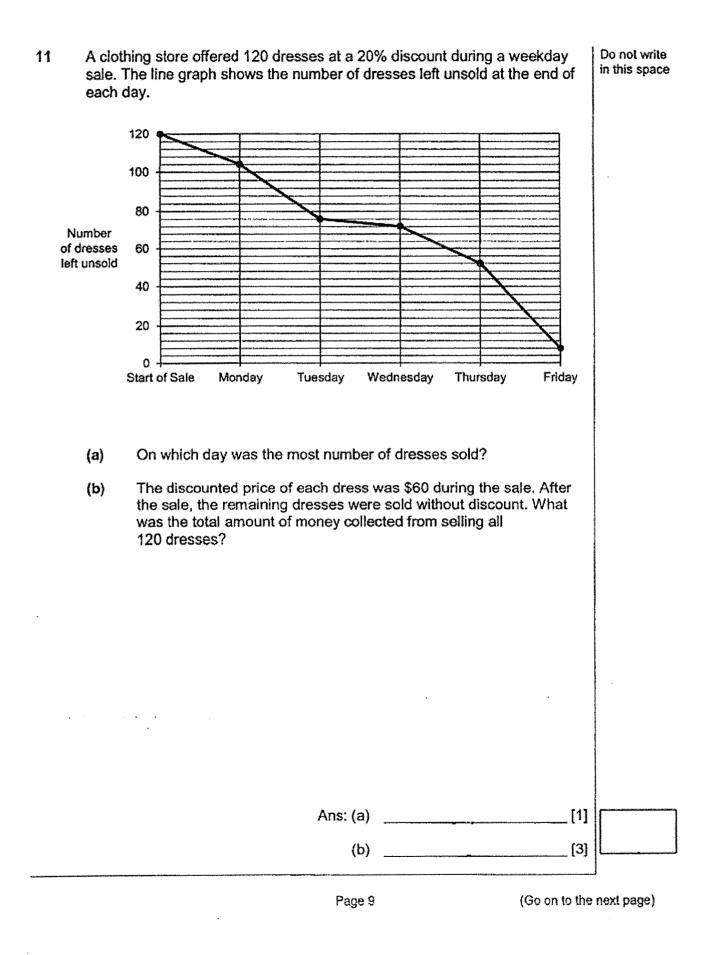
8 A roll of tape has three types of shapes, ♡, ᠿ and ▷, printed in a repeated Do not write pattern.

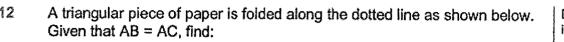


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Ans:[3]	
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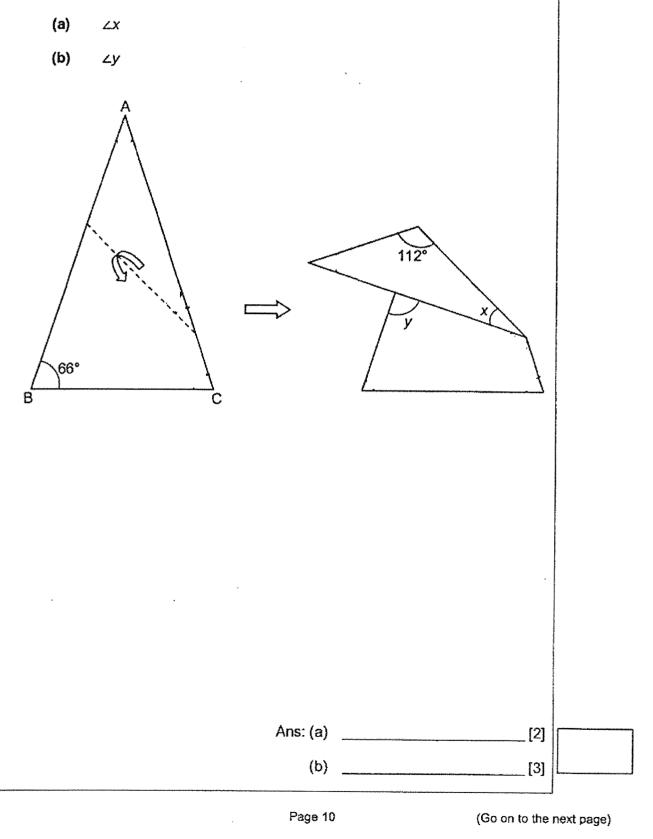
	Page 8 (Go on to	o the next page)
4 90 (11) (10)	Ans:	[3]
		•
	6 muffins. In the end, she had 36 cinnamon muffins left. How many bluebe muffins did she have left?	rry
10	Mrs Tan baked blueberry muffins and cinnamon muffins in the ratio 3 : 1 She sold 50% of all her muffins. $\frac{5}{6}$ of the muffins sold were blueberry	. Do not write in this space



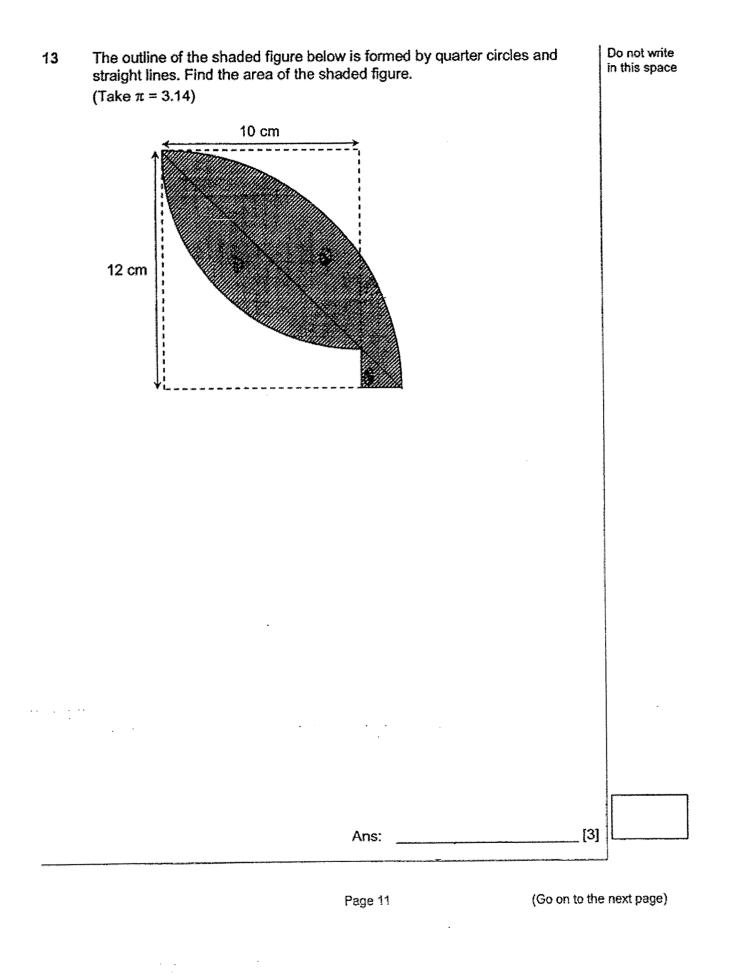


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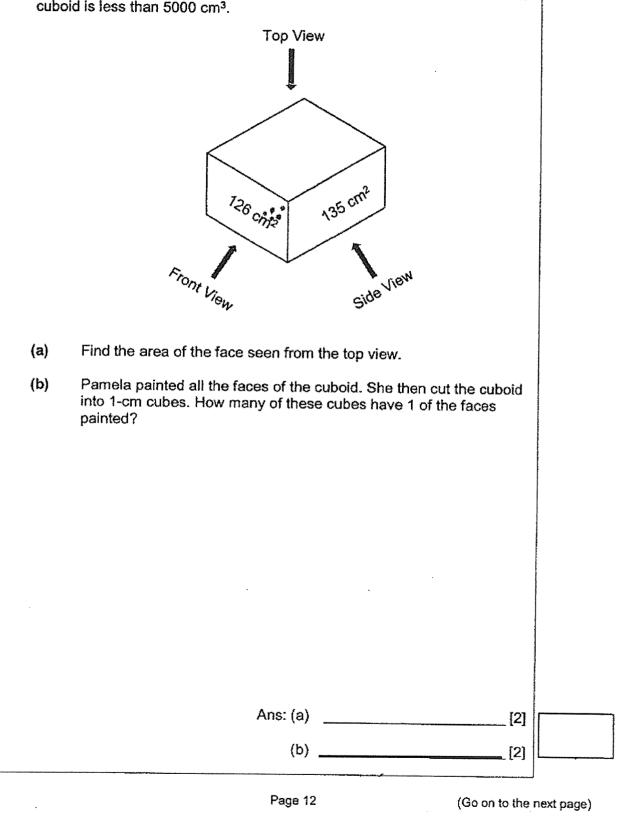
12

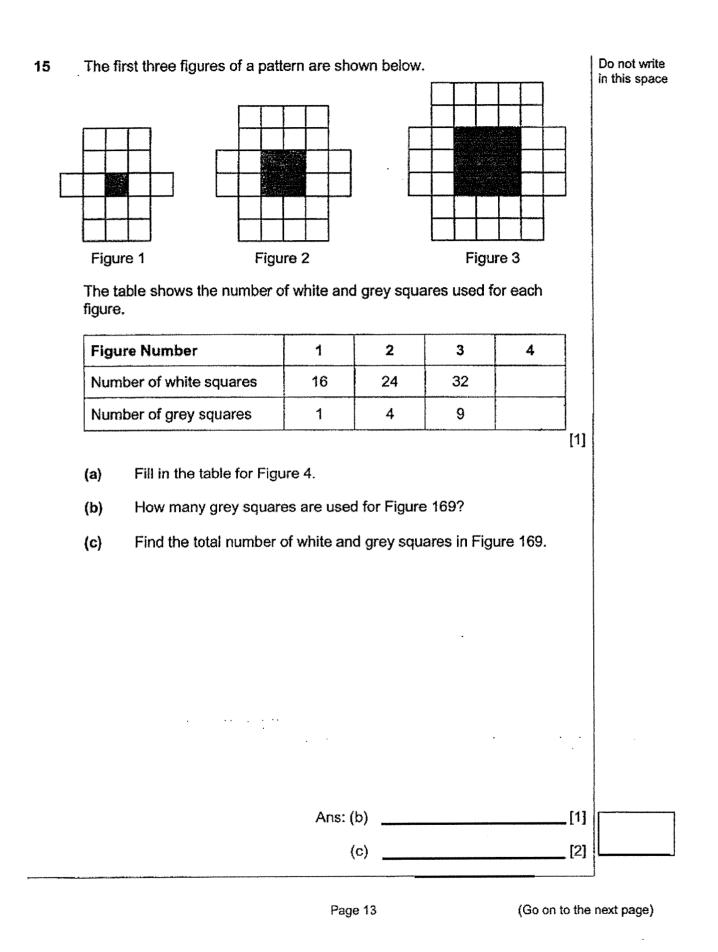


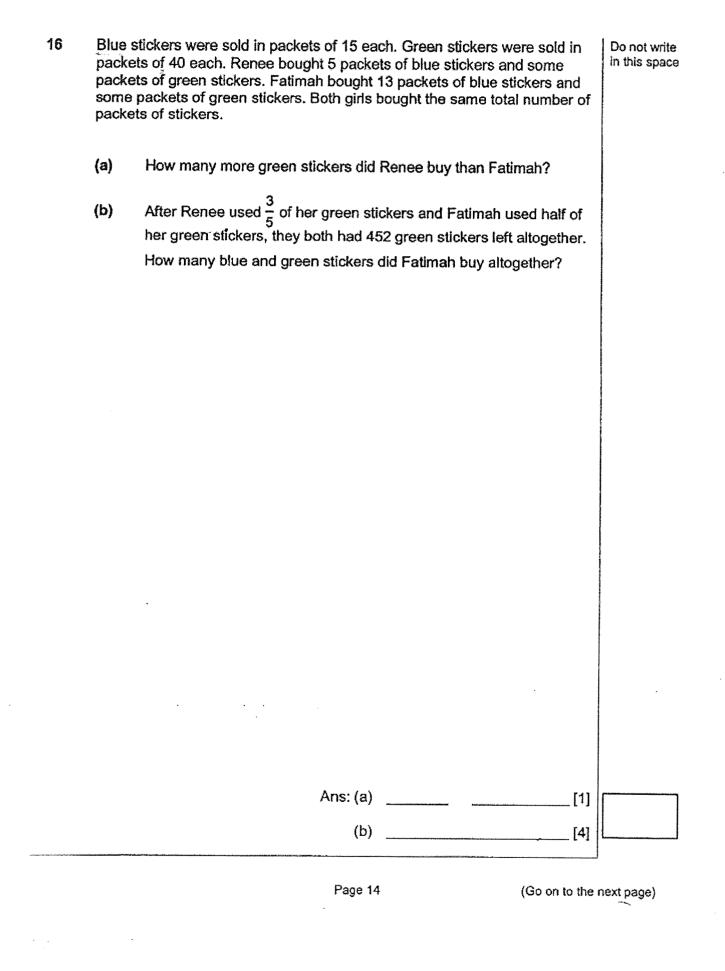
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14 A cuboid is shown below. The length, breadth and height are whole numbers in cm. The area of the face seen from the front view is 126 cm². The area of the face seen from the side view is 135 cm². The volume of the cuboid is less than 5000 cm³.

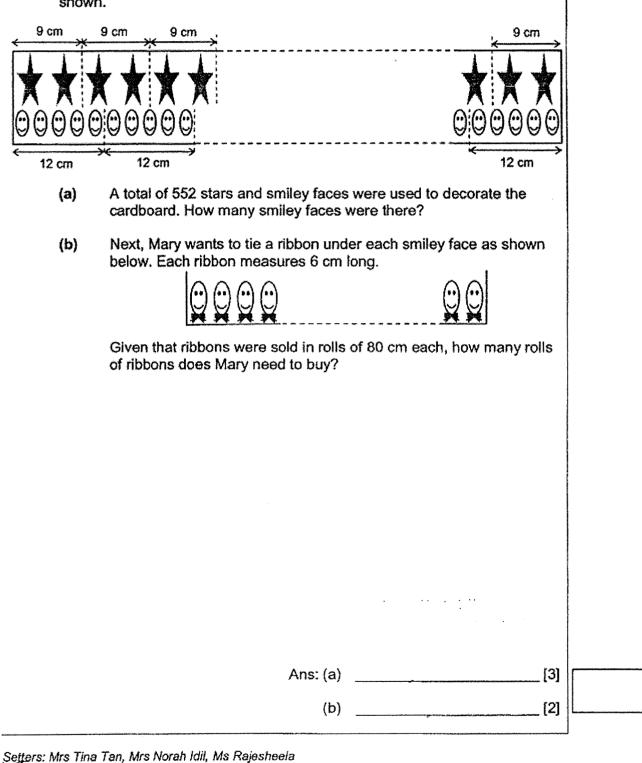
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17 Mary decorated a rectangular piece of cardboard using stars and smiley faces. On the top part, there were 2 stars for every 9 cm of length of the cardboard. On the bottom part, there were 5 smiley faces for every 12 cm. The stars and smiley faces were placed at an equal distance apart as shown. Do not write in this space



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