HENRY PARK PRIMARY SCHOOL
2019 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ ( ) Parent's Signature

Class: Primary 5 _____ _____

Marks:

Paper 1	Booklet A	20
	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.

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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)

---

1 What is the value of the digit 6 in 1 168 189?

(1) 60
(2) 600
(3) 6000
(4) 60 000

2 Which one of the following numbers is 78 000 when rounded to the nearest thousand?

(1) 77 449
(2) 77 501
(3) 78 649
(4) 78 901

3 Which one of the following is **not** a common factor of 24 and 32?

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

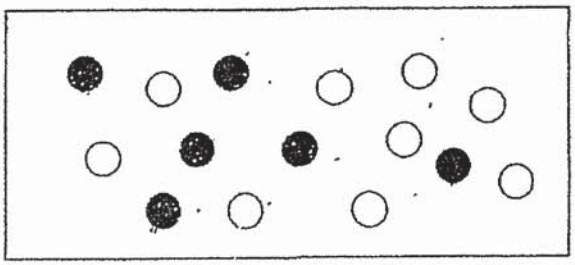
4 Which of the following fractions is greater than $\frac{5}{12}$?

(1) $\frac{1}{6}$
(2) $\frac{1}{2}$
(3) $\frac{1}{3}$
(4) $\frac{1}{4}$

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5 Study the diagram below.
What fraction of the circles are shaded?



(1) $\frac{1}{3}$

(2) $\frac{2}{3}$

(3) $\frac{2}{5}$

(4) $\frac{3}{5}$

6 Which of the following is equal to $3\frac{5}{6}$?

(1) $\frac{15}{6}$

(2) $\frac{21}{6}$

(3) $\frac{23}{6}$

(4) $\frac{35}{6}$

7 $52.94 = 50 + 2 + \frac{90}{\boxed{?}} + \frac{4}{100}$

What is the missing number in the box?

(1) 1

(2) 10

(3) 100

(4) 1000

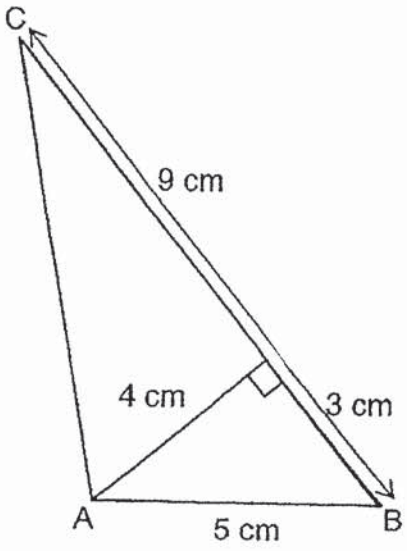
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8 In a hall, $\frac{3}{8}$ of the number of students are girls. What is the ratio of the number of boys to the number of girls in the hall?

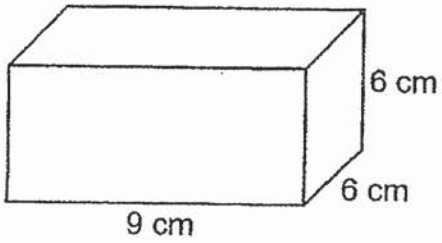
(1) 3 : 11
(2) 5 : 3
(3) 5 : 8
(4) 5 : 11

9 What is the area of triangle ABC?



(1) 24 cm^2
(2) 30 cm^2
(3) 48 cm^2
(4) 60 cm^2

10 What is the volume of the cuboid shown below?



(1) 216 cm^3
(2) 324 cm^3
(3) 486 cm^3
(4) 729 cm^3

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11 Ms Lee paid $240 for a bag and a skirt. The bag cost 4 times as much as the skirt. How much more did the bag cost than the skirt?

(1) $144
(2) $120
(3) $96
(4) $48

12 There were 16 pupils in a class at first. 12 of them were girls. 2 more boys and 2 more girls joined the class. In the end, what fraction of the pupils in the class were girls?

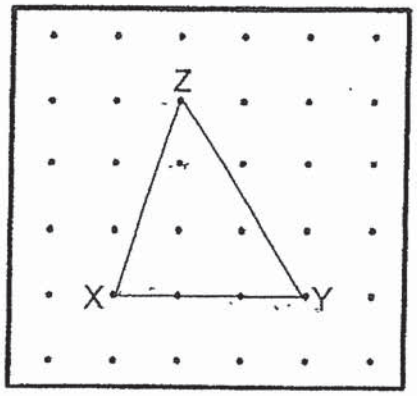
(1) $\frac{2}{3}$
(2) $\frac{7}{8}$
(3) $\frac{7}{9}$
(4) $\frac{7}{10}$

13 What is the value of $7 + 3 \times 6 - 4$?

(1) 56
(2) 21
(3) 20
(4) 13

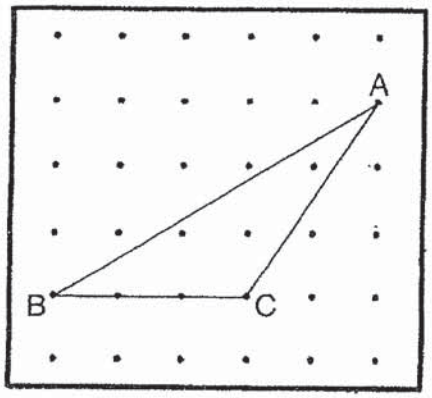
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14 The diagram below shows a triangle XYZ drawn inside a box.

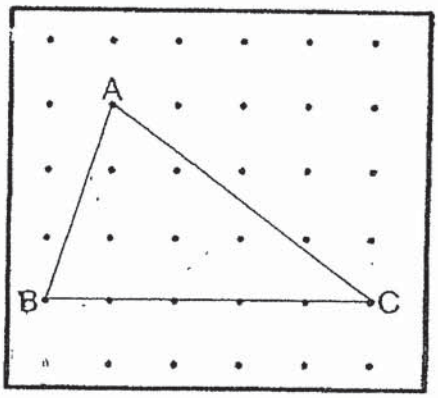


Which of the following triangles has the same area as triangle XYZ above?

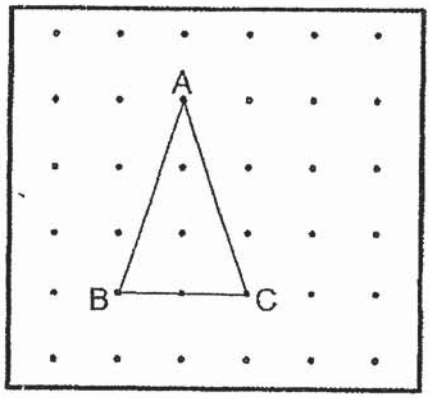
(1)



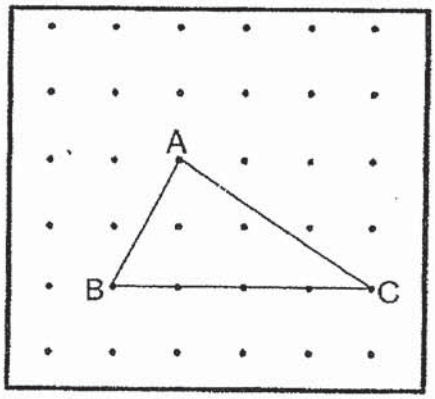
(2)



(3)



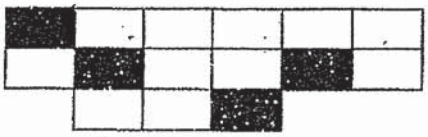
(4)



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15 The figure below is made up of identical rectangles. How many white rectangles must be removed so that $\frac{2}{5}$ of the figure is shaded?



(1) 1

(2) 2

(3) 5

(4) 6

(Go on to Booklet B)

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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 What is the missing number in the number pattern shown below?

611 899, _____, 612 099, 612 199, 612 299, 612 399

Ans: _____

17 Find the value of $4\frac{2}{5} + 1\frac{9}{10}$

Ans: _____

18 Express 0.06 as a fraction. Give your answer in its simplest form.

Ans: _____

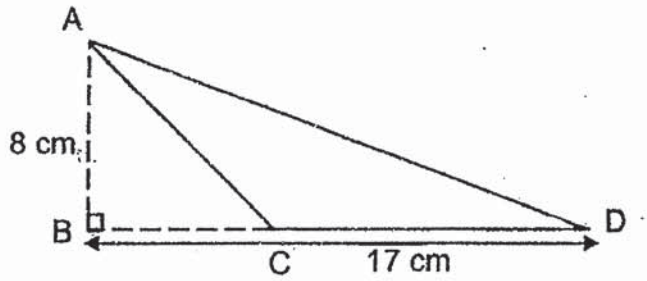
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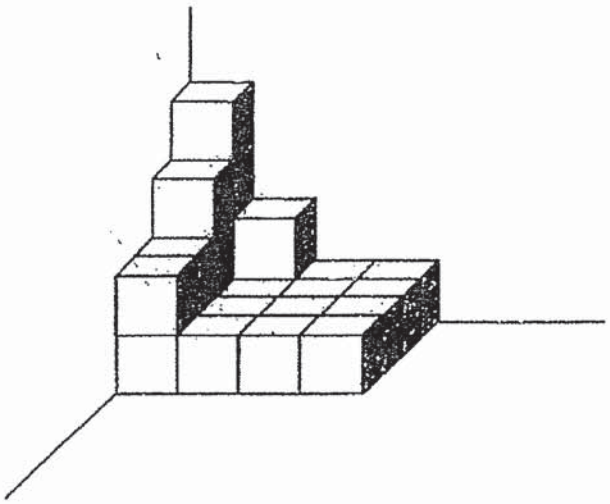
19 In the triangle below, BCD is a straight line and AB = BC. What is the area of the triangle ACD?

Do not write in this space



Ans: _____ cm^2

20 The solid below is made up of 1-cm cubes.
What is the volume of the solid?



Ans: _____ cm^3

(Go on to the next page)

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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)

Do not write in in this space.

21 Mr Wong and Mrs Lee have a total of $8776. Mr Wong has $2388 more than Mrs Lee. How much does Mr Wong have?

Ans: $ _____

22 List all the common multiples of 4 and 6 which are smaller than 30.

Ans: _____

23 $\frac{4}{9}$ of a number is 72. What is the number?

Ans: _____

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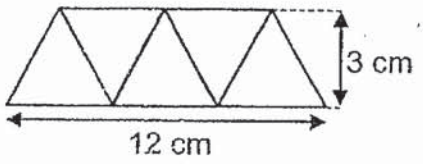
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24 Randy, Samy and Tann donated $1152 in the ratio of 3 : 2 : 4 respectively. How much did Tann donate?

Do not write in this space

Ans: $ _____

25 The figure below is made up of 5 identical triangles. What is the area of one such triangle?



Ans: _____ cm^2

26 Abigail had 414 packets of buttons. Each packet contained 6 buttons. She repacked the buttons into packets of 4. How many packets of 4 buttons would she get?

Ans: _____

(Go on to the next page)

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Use the information below to answer Questions **27a** and **27b**.

Do not write in this space

The table below shows the schedule for a shuttle bus that leaves a hotel for a shopping mall.

Leaves hotel	Arrives at shopping mall
11 30	11 45
12 00	12 15
12 30	12 45
13 00	13 15
13 30	13 45
14 00	14 15

27a What is the latest time Ming Ming can take the shuttle bus to reach the shopping mall by 1 p.m.?

Ans: _____ p.m.

27b Li Li wants to take the shuttle bus that leaves at 11 30 but she is 25 minutes late. What is the earliest time she can arrive at the shopping mall by taking the shuttle bus from the hotel?

Ans: _____ p.m.

28 Ali and Ben shared the total cost of a present.

Ali paid \$15 more than $\frac{3}{8}$ of the cost of the present. Ben paid \$25.

How much did the present cost?

Ans: \$ _____

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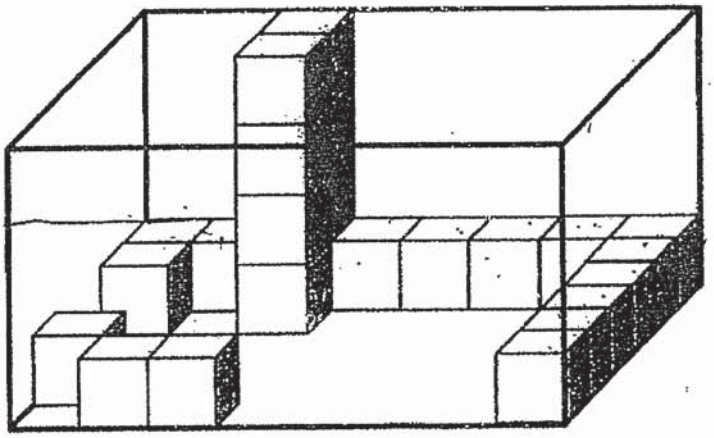
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29 A pole was 2 m long. Jack painted $\frac{1}{4}$ of the pole red, $\frac{2}{5}$ of the pole blue and the rest of it green. Find the length of the pole that was painted green. Express your answer in cm.

Do not write in this space

Ans: _____ cm

30 The figure shows a rectangular glass box partly filled with unit cubes. Jim then completely filled the box with unit cubes. How many such unit cubes were there altogether in the end?



Ans: _____

End of Paper 1

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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 the number of adults to the number of children at the zoo was 2 : 1. There were 885 boys and 637 girls at the zoo. Altogether, how many people were at the zoo?

Ans: _____

2 John wrote a decimal. He wanted to multiply it by 4. Instead, he multiplied it by 7 and the answer was 1.05. What should have been the correct answer?

Ans: _____

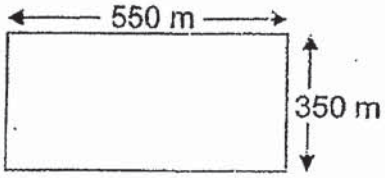
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3 Mr Lee wants to fence his rectangular farm measuring 550 m by 350 m. The fence costs $15 per metre. How much does he have to pay in total to fence his rectangular farm?

Do not write in this space



Ans: $ _____

4 Joe had $4315 more than Kim at first. Then, Kim gave Joe $268. How much more money did Joe have than Kim in the end?

Ans: $ _____

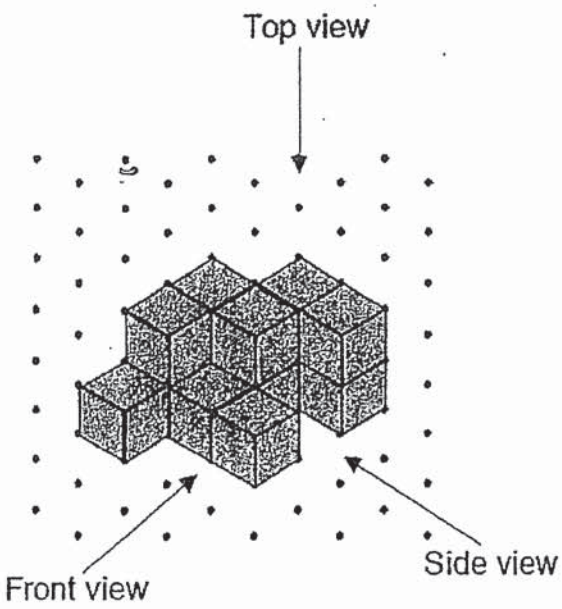
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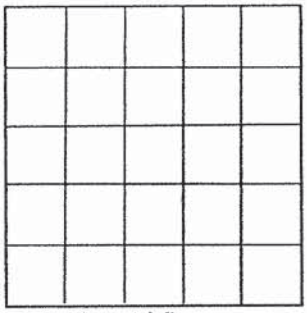
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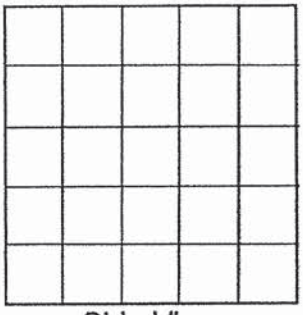
5 Study the following solid. Draw its front view and side view on the square grids below.

Do not write in this space





Front View



Side View

(Go on to the next page)

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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 and part-question.

(45 marks)

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6 In a class, $\frac{3}{5}$ of the pupils are girls. $\frac{1}{6}$ of the girls and $\frac{3}{4}$ of the boys wear spectacles. What fraction of the pupils wear spectacles? Express your answer in its simplest form.

Ans: _____ [3]

7 In a crate, $\frac{2}{5}$ of the fruits were apples and the rest were pears.

$\frac{1}{2}$ of the apples and 74 pears from the crate were sold. There were then a total of 150 apples and pears left in the crate. What was the total number of apples and pears in the crate at first?

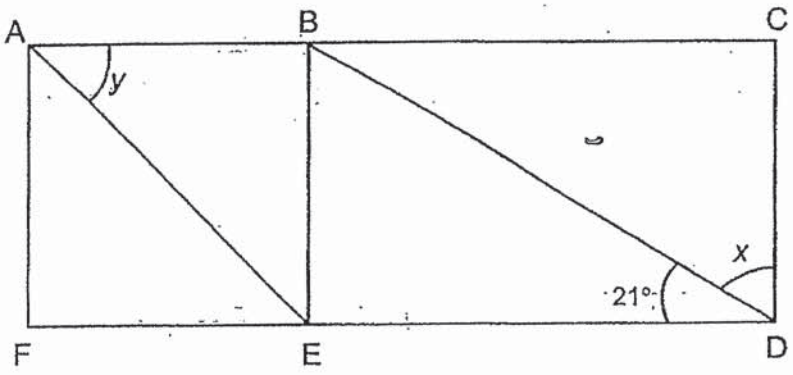
Ans: _____ [3]

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8 The figure below shows square ABEF and rectangle BCDE.
Find the sum of $\angle x$ and $\angle y$.



Do no write in this space

Ans: _____ [3]

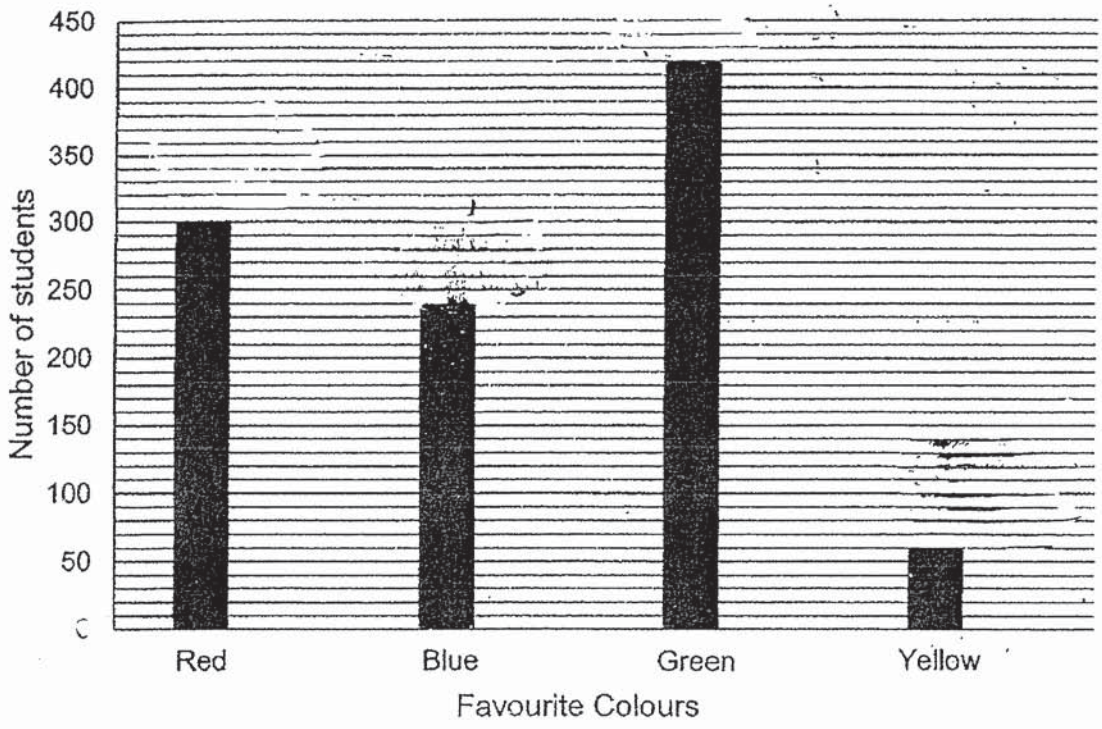
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9 The bar graph below shows the favourite colours of all the students in a school. Each student was only allowed to choose 1 favourite colour.

Do not write in this space



(a) What is the ratio of the number of students who chose red to the number who chose blue to the number who chose yellow?

(b) Mr Tan bought T-shirts for all the students in the school in their favourite colours. The total amount collected from the sales of T-shirts was $10 710. Given that the cost of each T-shirt was the same, find the cost of each T-shirt.

Ans: (a) _____ [1]

(b) _____ [2]

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10 744 girls and 1498 boys signed up for a Mathematics competition. On the actual day of the competition, some boys were absent. As a result, the ratio of the number of girls to the number of boys taking part in the competition was 6 : 11. How many boys were absent for the competition?

Do not write in this space

Ans: _____ [4]

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11 Jake and Kim had a total of $3139 at first. After Jake spent $254 and Kim spent $185, Jake had 4 times as much money as Kim had left. How much money did Jake have at first?

Do not write in this space

Ans: _____ [5]

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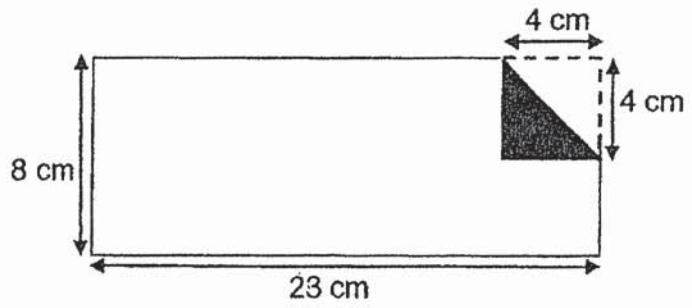
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12 The figure below shows a rectangular piece of paper with one of its corners folded.

(a) Find the area of the shaded triangle.

(b) The length of the paper is 23 cm and the breadth is 8 cm, ~~how many~~ what is the greatest number of such triangles can be cut from the piece paper?

Do not write in this space



Ans: (a) _____ [1]

(b) _____ [4]

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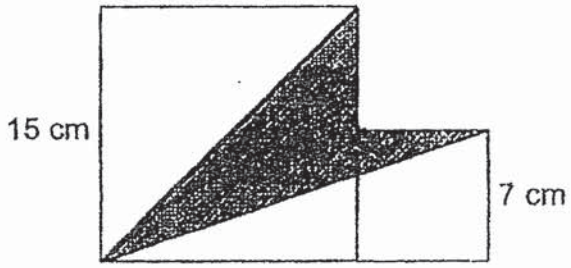
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13 Ali and Ben had 213 stamps. Ali and Clement had 270 stamps. The ratio of the number of stamps Ben had to the number of stamps Clement had was 4 : 7. How many stamps did Ali have?

Do not write in this space

Ans: _____ [3]

14 The figure below is made up of 2 squares. Find the area of the shaded part.



Ans: _____ [3]

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15 A baker bought some eggs. She used $\frac{1}{3}$ of the eggs to bake tarts, 92 eggs to bake muffins and $\frac{2}{3}$ of the remaining eggs to bake cupcakes. After that, she still had 36 eggs. How many eggs did the baker buy?

Do not write this space

Ans: _____ [4]

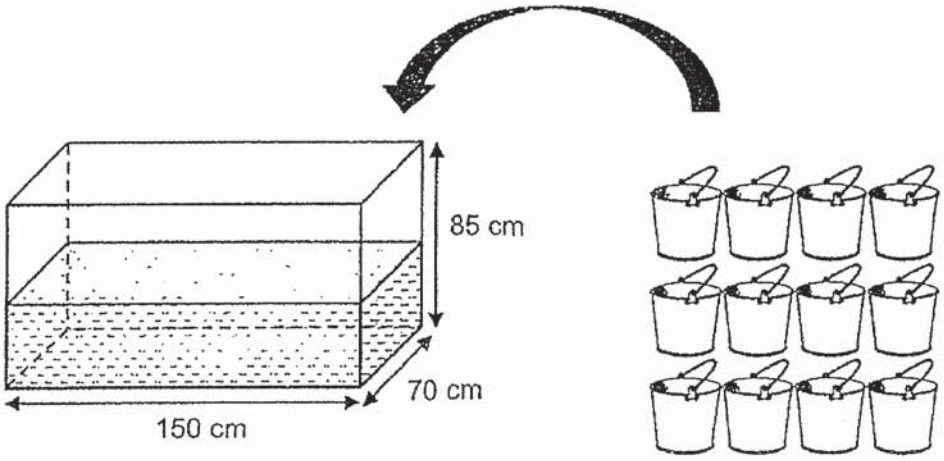
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16 A rectangular tank measuring 150 cm by 70 cm by 85 cm high was $\frac{2}{5}$-filled with water. Mrs Tan poured 12 pails of water, each containing the same volume of water, into the tank. In the end, there was 615 ℓ of water in the tank. What was the volume of water in each pail? Give your answer in litres.

Do not write in this space



Ans: _____ [4]

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17. Mr Lau bought a tennis racket and a bag at discounted prices. He spent a total of $168.75 on the two items. The ratio of the amount Mr Lau paid for the tennis racket to the amount he paid for the bag was 2 : 1.

Do not write in this space

(a) Find the cost of the bag after the discount.

(b) The total discount given for the two items was $31.25. Mr Lau was given a 10% discount for the tennis racket. What was the percentage discount given for the bag?

Ans: (a) _____ [1]

(b) _____ [4]

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ANSWER KEY

YEAR	:	2019
LEVEL	:	PRIMARY 5
SCHOOL	:	HENRY PARK PRIMARY SCHOOL
SUBJECT	:	MATHEMATICS
TERM	:	SA1

PAPER 1 : BOOKLET A

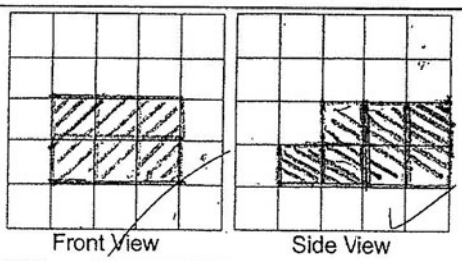
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
4	2	3	2	3	3	3	2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
1	2	1	4	2	1	3	

Q16	611999
Q17	$4\frac{4}{10} + 1\frac{9}{10} = 6\frac{3}{10}$
Q18	$\frac{3}{50}$
Q19	17 – 8 = 9cm $\frac{1}{2} \times 8 \times 9 = 36cm^2$
Q20	$24cm^3$
Q21	8776 – 2388 = $6388 $6388 ÷ 2 = $3194 $3194 + $2388 = $5582
Q22	12 and 24
Q23	162
Q24	$1152 ÷ 9 = $128 $128 x 4 = $512
Q25	$\frac{1}{2} \times 4 \times 3 = 6cm^2$
Q26	[illegible] x 6 ÷ 4 = 621packets
Q27a	[illegible] p.m.
Q27b	[illegible] p.m.
Q28	$25 + $15 = $40 5u → $40 u → $8 8u → $64
Q29	$1 - \frac{1}{4} - \frac{2}{5} = \frac{20}{20} - \frac{5}{20} - \frac{8}{20}$ $= \frac{7}{20}$ 2m = 200cm 200cm x $\frac{7}{20}$ = 70cm
Q30	4 x 6 x 8 = 192 cubes

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PAPER 2

Q1	885 + 637 = 1522 1u → 1522 3u → 4566people
Q2	1.05 ÷ 7 = 0.15 0.15 x 4 = 0.6
Q3	(550 + 350) x 2 = 1800 1800 x $15 = $27000
Q4	2 x $268 = $536 $4315 + $536 = $4851
Q5	
Q6	G : B : T → 3 : 2 : 5 → 6 : 4 : 10 $\frac{1}{10}+\frac{3}{10}=\frac{4}{10}=\frac{2}{5}$
Q7	At first → A : P = 2u : 3u In the end → A : P = 1u : 3u – 74 1u + 3u – 74 = 150 4u = 150 + 74 = 224 1u = 56 5u = 56 x 5 = 280
Q8	<x = 90 – 21 = 69 <y = 90 – 45 = 45 <x + <y = 69 + 45 = 114
Q9	(a) R : B : Y → 300 : 240 : 60 → 5 : 4 : 1 (b) 300 + 240 + 420 + 60 = 1020 $10710 ÷ 1020 = $10.50
Q10	744 ÷ 6 = 124 124 x 11 = 1364 – 1364 = 134
Q11	- $185 - $254 = $2700 $2700 ÷ 5 = $540 $540 x 4 + 254 = $2414
Q12	(a) $\frac{1}{2}$ x 4 x 4 = 8cm² (b) 8 ÷ 4 = 2 23÷ 4 = 5 R 3 5 x 2 x 2 = 20 tringales can be cut
Q13	7 – 4 = 3u 3u → 270 – 213 = 57 4u → 57 ÷ 3 x 4 = 76 Ali : 213 – 76 = 137 stamps (Ali have)

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Q14	Length of base → 7 + 15 = 22 Total area → 15 x 15 + 7 x 7 = 225 + 49 = 274 Unshaded part → $(\frac{1}{2} \times 15 \times 15) + (\frac{1}{2} \times 7 \times 22) = 112.5 + 77 = 194.5$ Total shaded area → 274 – 194.5 = 84.5cm^2
Q15	36 x 3 = 108 108 + 92 = 200 200 ÷ 2 x 3 = 300
Q16	$85 \times \frac{2}{5} = 34$ 34 x 70 x 150 = 357000ml 357000ml = 357L 615 – 357 = 258L 258L ÷ 12 = 21.5L for each pail
Q17	(a) \$168 ÷ 3 = \$56.25 (b) \$56.25 x 2 = \$112.50 \$112.50 ÷ 9 = \$12.50 \$31.25 – \$12.50 = \$18.75 \$18.75 + \$56.25 = \$75 \$18.75 ÷ \$75.00 = 0.25 $0.25 \approx 25\%$

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