METHODIST GIRLS' SCHOOL (PRIMARY)

Founded in 1887

END-OF-YEAR EXAMINATION 2022
PRIMARY 5
MATHEMATICS

PAPER 1
BOOKLET A

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

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.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5. _____

Date: 2 November 2022

This booklet consists of 7 printed pages including this page.

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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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1 In 6 475 123, which digit is in the hundred thousands place?

(1) 7
(2) 6
(3) 5
(4) 4

2 $54 - 36 \div 3 \times 4 =$ _____

(1) 6
(2) 24
(3) 51
(4) 168

3 10.060 km = _____ m

(1) 106
(2) 1006
(3) 10 006
(4) 10 060

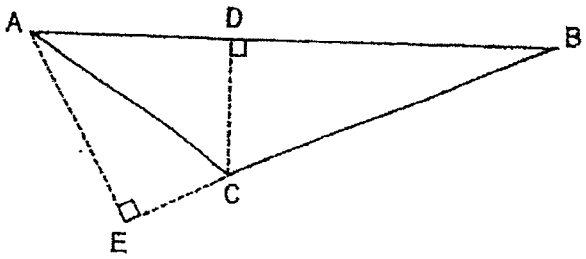
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4 Round 199 654 to the nearest 1000.

(1) 190 000
(2) 198 000
(3) 199 000
(4) 200 000

5 BC is the base of Triangle ABC. Which of the following is the corresponding height of Triangle ABC?



(1) AC
(2) AE
(3) DC
(4) AB

6 Find the value of $\frac{6}{5} \times \frac{1}{3}$.

(1) $\frac{2}{5}$
(2) $\frac{3}{4}$
(3) $\frac{7}{8}$
(4) $\frac{23}{15}$

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7 Which one of the following is closest to 1?

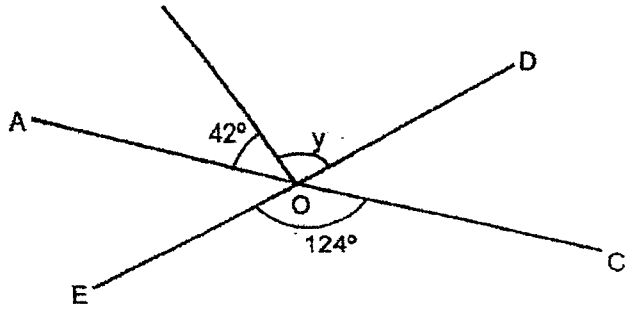
(1) $\frac{6}{7}$

(2) $\frac{7}{6}$

(3) $\frac{8}{9}$

(4) $\frac{9}{8}$

8 AOC and EOD are straight lines. Find $\angle y$.



(1) 96°

(2) 82°

(3) 69°

(4) 56°

9 Express 0.053 as a percentage.

(1) 0.053%

(2) 0.53%

(3) 5.3%

(4) 53%

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10 Mrs Muthu bought $\frac{3}{4}$ kg of coconut milk. She used $\frac{2}{5}$ of the coconut milk. How much coconut milk did she have left?

(1) $\frac{9}{20}$ kg

(2) $\frac{7}{20}$ kg

(3) $\frac{7}{10}$ kg

(4) $\frac{3}{10}$ kg

11 The ratio of the number of necklaces to the number of bracelets is 7 : 2. There are 126 necklaces and bracelets altogether. How many more necklaces than bracelets are there?

(1) 98

(2) 70

(3) 18

(4) 14

12 There are 560 performers at the stadium. $\frac{1}{4}$ of them are children. $\frac{1}{5}$ of the adults are women and the rest are men. How many men are there at the stadium?

(1) 448

(2) 336

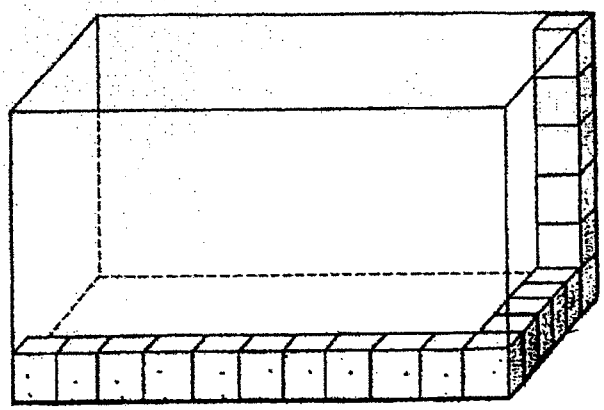
(3) 308

(4) 252

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13 A rectangular glass container is partially filled with 1-cm cubes as shown. What is the capacity of the glass container?



(1) 275 cm^3

(2) 300 cm^3

(3) 330 cm^3

(4) 396 cm^3

14 Printer A prints at a rate of 50 pages per minute. Printer B prints at a rate of 40 pages per minute. How long will it take both printers to print a total of 1800 pages?

(1) 12 min

(2) 20 min

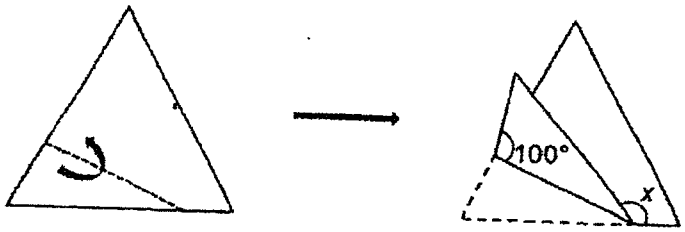
(3) 81 min

(4) 180 min

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15 A piece of paper in the shape of an equilateral triangle is folded along the dotted line as shown. Find $\angle x$.



(1) 20°

(2) 40°

(3) 140°

(4) 160°

(Go on to Booklet B)

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METHODIST GIRLS' SCHOOL (PRIMARY)

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END-OF-YEAR EXAMINATION 2022
PRIMARY 5
MATHEMATICS

PAPER 1
BOOKLET B

Total Time for Booklets A and B: 1 hour

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Write your answers in this booklet.
The use of calculators is **NOT** allowed.

Name: _____ ( )

Class: Primary 5._____

Date: 2 November 2022

Parent's Signature: _____

Paper 1 Booklet A	**/ 20**
Paper 1 Booklet B	**/ 25**
Paper 2	**/ 55**
TOTAL	**/ 100**

This booklet consists of 9 printed pages including this page.

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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

16 243 x 3000 = _____

Ans: _____

17 Find the value of (33 + 4 x 25) – (100 – 30 ÷ 6).

Ans: _____

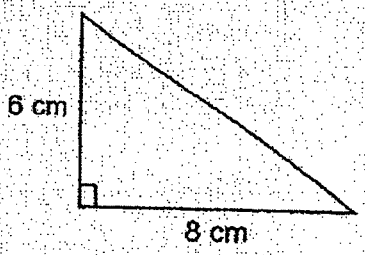
18 Mary poured 7160 ml of orange juice equally into 40 glasses. How much juice was there in each glass?

Ans: _____ ml

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19 Find the area of the triangle.



Do not write in this space

Ans: _____ cm^2

20 What is the missing value in the ratio below?

□ : 8 = 28 : 56

Ans: _____

(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 this space

21 The table shows the time taken for Jane to swim 50 m recorded on different days. Study the table and answer the following questions.

Day 1	22.5 s
Day 2	21.8 s
Day 3	24.5 s
Day 4	23.2 s

(a) On which day did Jane clock the fastest time?

Ans: (a) Day _____

(b) What was the average time taken for Jane to swim 50 m over the 4 days?

Ans: (b) _____ s

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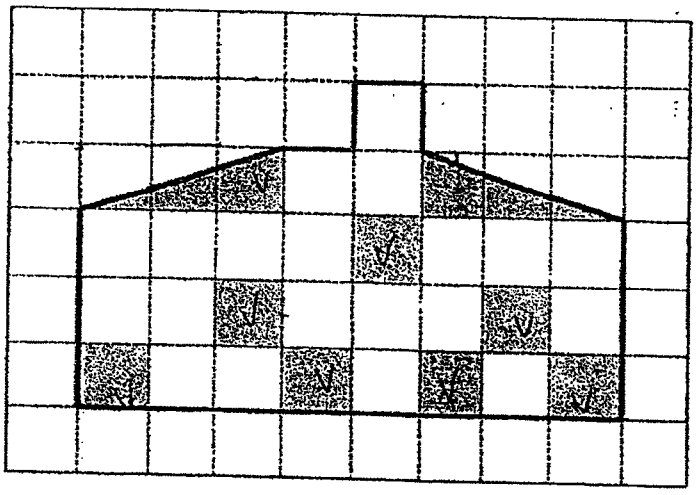
22 In Jenny's class, $\frac{1}{3}$ of the pupils come to school by car, 20% of the pupils take the school bus and $\frac{1}{6}$ of the pupils walk to school. The rest of the class takes the MRT to school. What percentage of Jenny's class takes the MRT to school?

Do not write in this space

Ans: _____ %

23 Andy drew a figure in the square grid and shaded some parts.

How many more square(s) must be shaded such that $\frac{3}{5}$ of the figure is shaded?



Ans: _____

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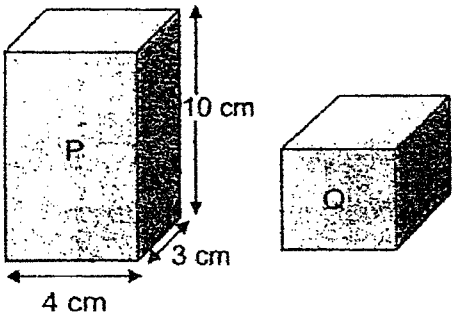
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24 Sammy has a plank of wood measuring 2.1 m. He saws it into 2 pieces. One piece is 25 cm longer than the other piece. What is the length of the shorter piece of wood? Give your answer in cm.

Do not write in this space

Ans: _____ cm

25 The volume of cuboid P is 2 times the volume of cuboid Q.
Find the volume of cuboid Q.



Ans: _____ cm^3

(Go on to the next page)

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26 There are some books on a shelf. $\frac{3}{5}$ of the books are fiction while the rest are non-fiction. $\frac{2}{3}$ of the non-fiction books are in Chinese while the rest are in Malay. There are fewer children's fiction books than adult fiction books.

Each statement below is either true, false, or not possible to tell from the information given. For each statement, put a tick (✓) in the correct column.

	True	False	Not possible to tell
(a) There are fewer children's fiction books than Malay non-fiction books.			
(b) The greatest number of books on the shelf are adult fiction books.			

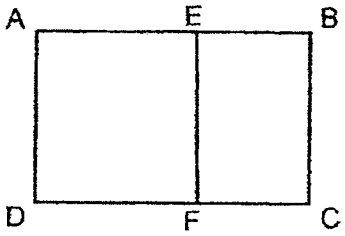
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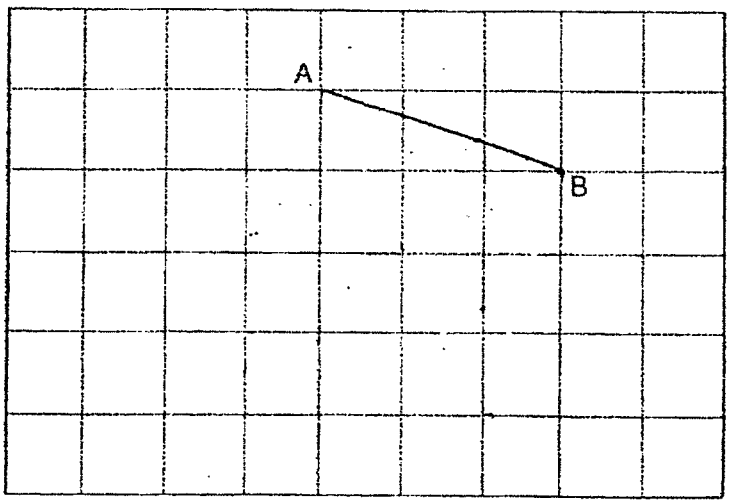
27 In the diagram, ABCD is a rectangle and AEFD is a square.
The ratio of the AE to EB is 3 : 2. What percentage of rectangle ABCD is shaded?

Do not write in this space



Ans: _____ %

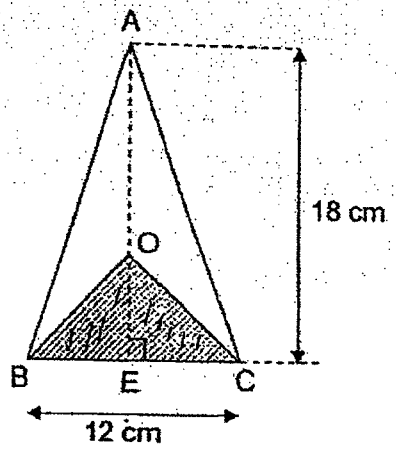
28 In the square grid, the line AB has been drawn for you.
Draw a right-angled isosceles triangle ABC, where AB = BC.
Label point C.



(Go on to the next page)

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29 ABC is an isosceles triangle. AO is twice the length of OE.
AE = 18 cm and BC = 12 cm. Find the area of the unshaded part.



Do not write in this space

Ans: _____ cm^2

30 Kumar made a pattern using three different shapes: stars, triangles and circles. The first 18 shapes in the pattern are shown.

☆△○△△☆☆△○△△☆☆△○△△☆ ...

1st 18th

There were 46 triangles in the pattern. What was the greatest number of shapes in the pattern?

Ans: _____

End of Paper

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METHODIST GIRLS' SCHOOL (PRIMARY)

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END-OF-YEAR EXAMINATION 2022
PRIMARY 5
MATHEMATICS

PAPER 2

Duration: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

Do not turn over this page 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.

Name: _____ ( )

Class: Primary 5. _____

Date: 2 November 2022

55

This booklet consists of 17 printed pages including this page.

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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)

Do not write in this space

1 Meiling bought 3500 g of flour. She gave $\frac{1}{2}$ of it to her sister and used 400 g to bake a cake. How much flour had she left?
Give your answer in kg.

Ans: _____ kg

2 For every $4 that Jimmy saved, his father gave him another $2.50. How much would Jimmy's father have given him when he had a total of $157?

Ans: $ _____

(Go on to the next page)

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3 The perimeter of a rectangular room is 126 m. The ratio of the length of the room to the breadth of the room is 4 : 3. What is the length of the room?

Do not write in this space

Ans: _____ m

4 A rectangular tank measuring 30 cm by 20 cm by 25 cm is $\frac{2}{3}$ - filled with water. How many more litres of water is needed to fill the tank to the brim?

Ans: _____ ℓ

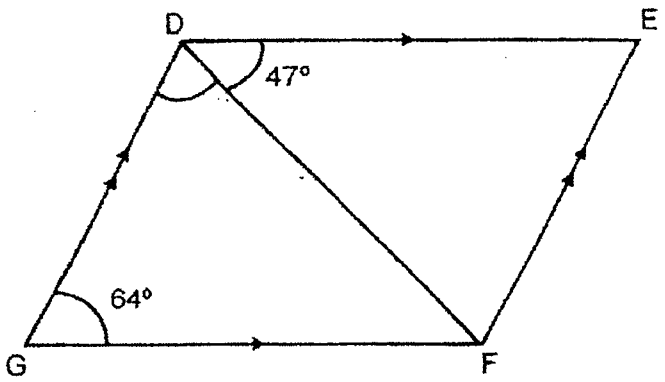
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5 DEFG is a parallelogram. $\angle EDF = 47°$ and $\angle DGF = 64°$.

Find $\angle GDF$.

Do not write in this space



Ans: _____ °

(Go on to the next page)

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For questions to 6 to 17, show your workings 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 There are 150 items in a bag. 48% of the items are pens. The rest of the items are erasers, rulers and 48 pencils. The ratio of the number of erasers to the number of rulers is the same as the ratio of the number of pens to the number of pencils. How many rulers are there in the bag?

Ans: _____ [3]

7 Danny had a sum of money. He spent \$315 on a mobile phone and $\frac{3}{5}$ of the remaining money on a headphone. He then had $\frac{1}{10}$ of the sum of money left. How much money did Danny have at first?

Ans: _____ [3]

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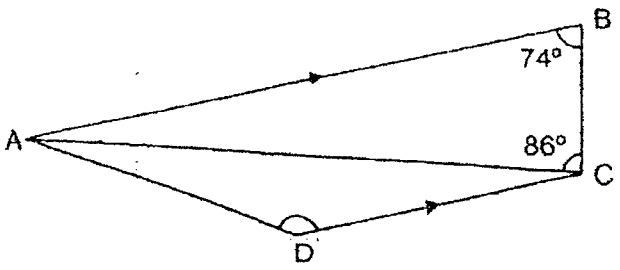
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8 On Monday, the number of boys who registered for a contest was three times the number of girls. On Tuesday, another 50 boys registered for the contest while 20 girls withdrew from it. A total of 2454 registrations were confirmed at the end of the two days. How many more boys than girls registered for the contest?

Do not write in this space

Ans: _____ [3]

9 ABCD is a trapezium. ACD is an isosceles triangle where AD = DC. $\angle ABC = 74°$ and $\angle ACB = 86°$. Find $\angle ADC$.



Ans: _____ [3]

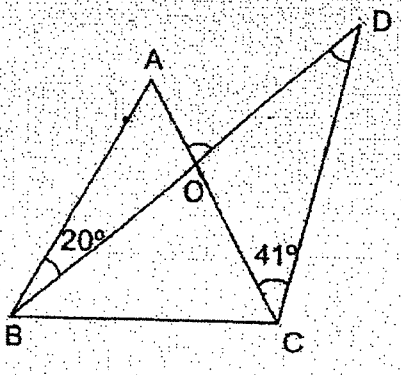
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10 ABC is an equilateral triangle. $\angle ABD = 20°$ and $\angle ACD = 41°$. BOD is a straight line.

Do not write in this space

(a) Find $\angle BDC$.



Ans: (a) _____ [2]

(b) Find $\angle AOD$.

Ans: (b) _____ [2]

(Go on to the next page)

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11 Figure 1 shows part of the pattern formed when identical rectangular tiles were used to completely cover a rectangular floor measuring 6.75 m by 3.6 m. Figure 2 shows an example of one such tile. How many rectangular tiles were used altogether?

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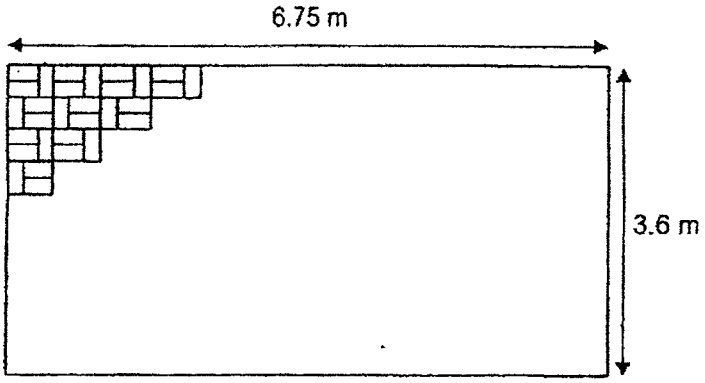


Figure 1



Figure 2

Ans: _____ [3]

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12 The table shows the cost of cable car tickets.

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Type of Ticket	Weekdays	Weekends & Public Holidays
Adult	$28	$32
Child (12 years old and below)	$20	$24

(a) Mr Tan took a cable car ride with his wife and 2 children last Saturday. His children are 10 years old and 14 years old. How much did Mr Tan pay for the tickets altogether?

Ans: (a) _____ [2]

(b) $2520 was collected from the sale of 104 tickets on Tuesday. How many child tickets were sold on that Tuesday?

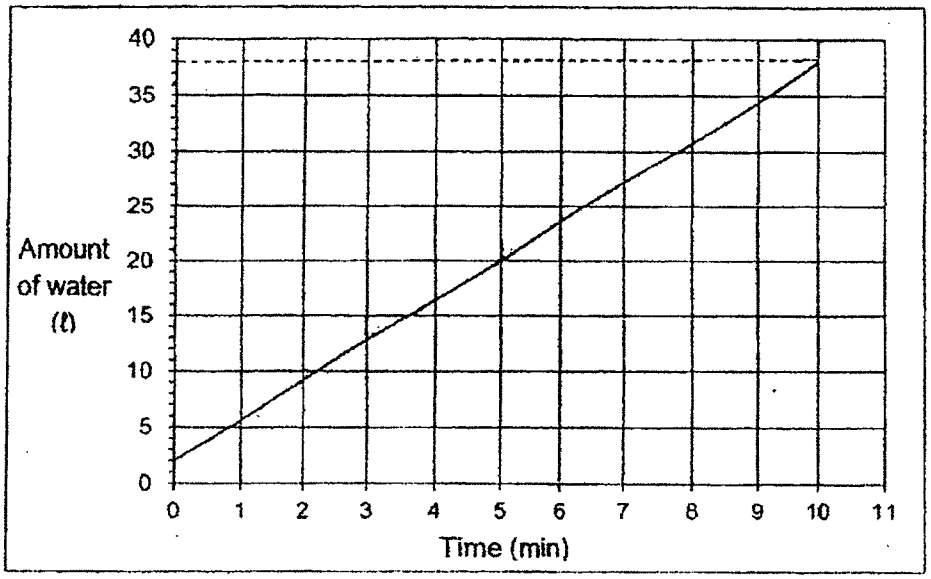
Ans: (b) _____ [3]

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13 The graph shows the rate at which water is flowing into a tank over 10 minutes.

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(a) How much water was flowing into the tank per minute ?

Ans: (a) _____ [1]

(b) At the end of 10 minutes, the tank was $\frac{4}{5}$ -filled with water.

Find the capacity of the tank.

Ans: (b) _____ [2]

(Go on to the next page)

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14 The table shows the marks obtained by Jane and Susan for 4 subjects.

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	Jane	Susan
English	78	90
Mathematics	8	78
Science	8	83
Mother Tongue	79	?
Average Mark	80.5	78

(a) How many marks did Susan get for Mother Tongue?

Ans: (a) _____ [2]

(b) Part of Jane's marks was covered by an ink blot. What was the highest possible mark that she could have gotten for Mathematics?

Ans: (b) _____ [2]

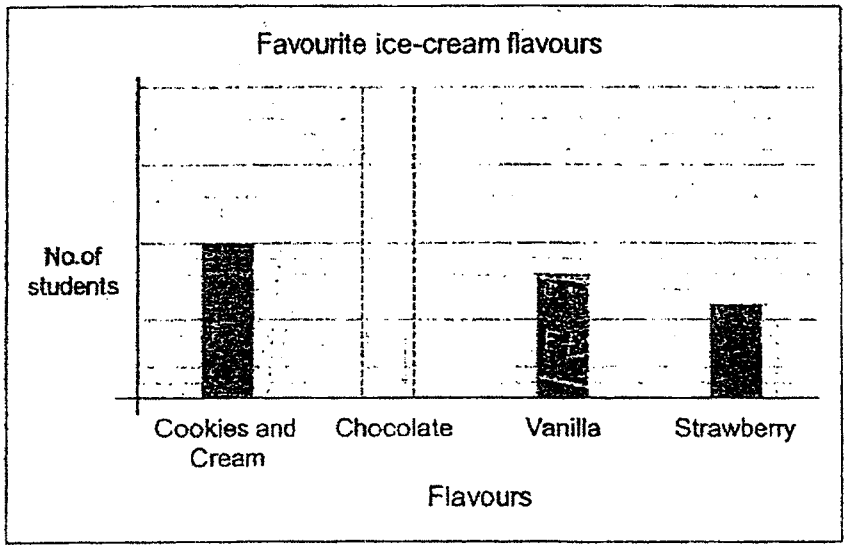
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15 The table shows the favourite ice-cream flavours of some students.

Do not write in this space

Ice-cream Flavours	Percentage of students
Cookies and Cream	25%
Chocolate	40%
Vanilla	20%
Strawberry	15%



(a) Based on the table, draw in the bar to represent the percentage of students who like chocolate. [1]

(Go on to the next page)

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CHILDREN'S DAY PROMOTION!!!



1 tub: $12.50

Buy 5 tubs, get 1 tub free!

(Price does not include 7% GST)

(b) Ms Ong wants to buy 13 tubs of ice-cream for her class. Based on the Children's Day promotion above, what is the least amount of money she needs to pay for the ice-cream including GST?

Round your answer to the nearest dollar.

Ans: (b) _____ [3]

(Go on to the next page)

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16 Samuel has a collection of toy vehicles. $\frac{1}{3}$ of them are motorcycles.

$\frac{3}{5}$ of his remaining collection are trucks and the rest are cars.

$\frac{1}{4}$ of the cars are red and the rest are blue.

(a) Samuel has 12 red cars. How many toy trucks does he have?

Ans: (a) _____ [1]

(b) What fraction of Samuel's collection are blue cars?

Ans: (b) _____ [1]

Do not write in this space

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(c) Samuel's mother gave him some more motorcycles, such that $\frac{5}{8}$ of his collection are now motorcycles. How many motorcycles did Samuel's mother give him?

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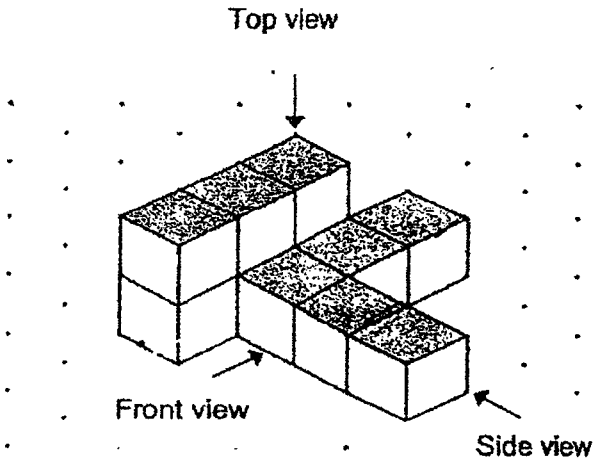
Ans: (c) _____ [3]

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17 The solid shown is made up of 1-cm cubes.

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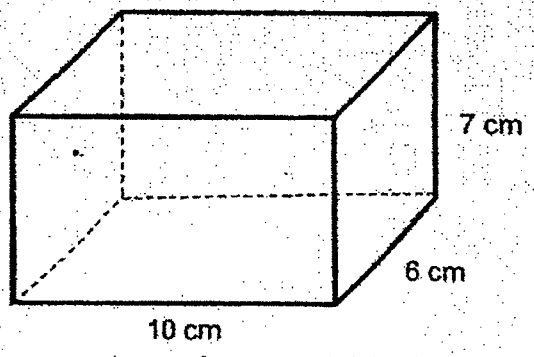
(a) Draw the side view in the square grid. [1]

Side View					

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Michael placed the solid into an open rectangular box.



(b) How many more 1-cm cubes must Michael put into the box to fill it up completely?

Ans: (b) _____ [2]

(c) How many cubes touch the inside of the box when it is completely filled?

Ans: (c) _____ [2]

END OF PAPER

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LEVEL : PRIMARY 5
SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM. : END OF YEAR EXAMINATION

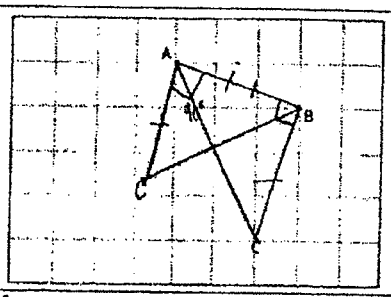
PAPER 1 (BOOKLET A)

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

(BOOKLET B)

Q16	729 000
Q17	(33 + 4 X 25) – (100 – 30 ÷ 6) = (33 + 100) – (100 – 30 ÷ 6) = 38
Q18	7160 ÷ 40 = 179ml
Q19	½ x 6 x 8 = 24cm^2
Q20	56 ÷ 8 = 7 28 ÷ 7 = 4
Q21	a) Day 2 b) 22.5 + 21.8 + 24.5 + 23.2 = 92.0s
Q22	$\frac{2}{6}+\frac{1}{6}=\frac{3}{6}$ $=\frac{1}{2}$ Ans : 30%
Q23	$\frac{1}{3}=\frac{5}{15}=\frac{10}{30}$ $\frac{3}{5}=\frac{18}{30}$ 18 – 10 = 8
Q24	210 – 25 = 185 185 ÷ 2 = 92.5cm
Q25	4 x 3 x 10 = 120 120 ÷ 2 = 60cm^3
Q26	a) Not possible to tell ✓ b) *True* ✓
Q27	$\frac{2}{5}$ x 100% = 40%

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Q28	
Q29	$\frac{1}{2}$ x 12 x 18 = 108 $\frac{1}{2}$ x 12 x 6 = 36 108 - 36 = 72cm^2
Q30	46 ÷ 3 = 15R1 6 x 15 = 90 90 + 3 = 93

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YEAR : 2022
LEVEL : PRIMARY 5
SCHOOL : METHODIST GIRLS' SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

PAPER 2

Q1	$\frac{1}{2}$ x 3500 = 1750 1750 – 400 = 1350 1.35kg
Q2	4 + $2.50 = $6.50 $157 ÷ $6.50 = $24\frac{2}{13}$ 24 x $6.50 = $156 $157 - $156 = $1 24 x 2.50 = $60
Q3	14u : 126 1u : 9 4u : 36m
Q4	$\frac{2}{3}$ x 30 x 20 x 25 = 10 000 30 x 20 x 25 = 15 000 15 000 – 10 000 = 5000 5 litre
Q5	64 + 47 = 111 180 – 111 = 69°
Q6	Pens : Pencils 72 : 48 3 : 2 E : R 3 : 2 Pens : 48% x 150 = 72 150 – 72 – 48 = 30 E + R = 30 5u : 30 1u : 76 2u : 12
Q7	$\frac{1}{10}$: 2u 1u : $\frac{1}{20}$ R : $\frac{1}{4}$ of original $\frac{3}{4}$: 315 $\frac{4}{4}$: $420

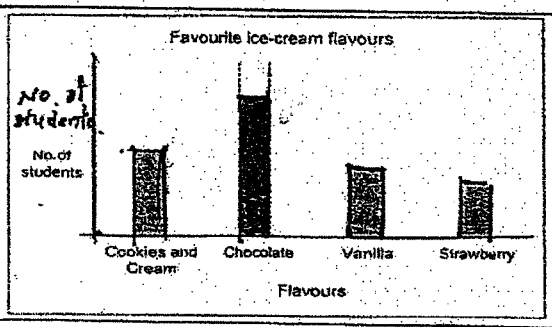
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Q8		2454 – 50 = 2404 2404 + 20 = 2424 2424 ÷ 4 = 606 1818 + 50 = 1868 606 – 20 = 586 1868 – 586 = 1282
Q9		74 + 86 = 160 180 – 160 = 20 180 – 20 – 20 = 140°
Q10	a)	60 – 20 = 40 20 + 60 = 80 180 – 80 = 100 41 + 60 = 101 101 + 40 = 141 180 – 141 = 39°
	b)	80°
Q11		15 ÷ 2 = 7.5 15 x 7.5 = 112.5 6.75m : 675cm 3.6m : 360cm 675 x 360 = 243 000 243 000 ÷ 112.5 = 2160cm^2
Q12	a)	32 x 3 = 96 96 + 24 = $120
	b)	Suppose all are adult Total : 28 x 104 = 2912 Extra : 2912 – 2520 = 392 Diff : 28 – 20 = 8 Opposite : 392÷ 8 = 49
Q13	a)	38 – 2 = 36 36 ÷ 10 = 3.6ℓ
	b)	$\frac{4}{5}$: 38 $\frac{1}{5}$: 9.5 $\frac{5}{5}$: 9.5 x 5 = 47.5 ℓ
Q14	a)	78 x 4 = 312 312 – 90 – 83 – 78 = 61
	b)	80.5 x 4 = 322 322 – 78 – 79 = 165 Sci : lowest possible 165 – 80 = 85

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Q15

a)



b)

1 set : 6 tubs ($62.50)
2 sets : 12 tubs ($125)
125 + 12.50 = 137.50
107% x 137.50 = 147.125
≈ $147.00

Q16

a)

12 x 4 = 48
12 x 3 = 36
48 ÷ 2 = 24
24 x 3 = 72

b)

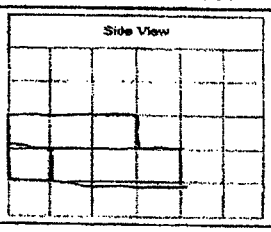
$\frac{2}{5} + \frac{2}{3} = \frac{4}{15}$
$\frac{3}{4} \times \frac{4}{15} = \frac{3}{15}$
$\frac{3}{15} = \frac{1}{5}$

c)

Car : 12 x 4 = 48
trucks : 72
Cart trucks : 72 + 48 = 120 ($\frac{3}{8}$ of total)
$\frac{1}{8}$ of total : 120 ÷ 3 = 40
$\frac{5}{8}$ of total : 40 x 5 = 200
MG : 200 – 60 = 140

Q17

a)



b)

10 x 6 x 7 = 420
420 – 11 =409

c)

10 x 7 = 70
70 x 2 = 140
(6-2) x 7 = 28
28 x 2 = 56
4 x 8 = 31
140 + 32 + 56 = 228

5
END

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