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 (OAS).

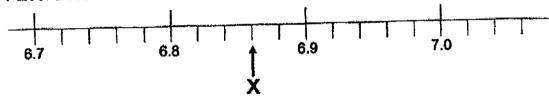
Arrange the following fractions from the smallest to the largest: 1.

$$\frac{3}{2}$$
, $\frac{6}{5}$, $\frac{1}{7}$

Largest Smallest

) (

Part of a scale is shown below. What is the value of the reading at X? 2.



- 6.83 (1)
- (2) 6.86
- 6.88 (3)
- () 7.10
- Find the value of $40 + 4 \times (8 6)$. 3.
 - 5 (1)
 - 20 (2)
 - (3) 36
 - () 74 (4)

4. The diagram shows a calculator.
Which of the following could be the mass of this calculator?



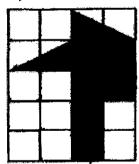
- (1) 1 g
- (2) 10 g
- (3) 100 g
- (4) 1000 g
- 5. In a school, the ratio of the number of boys to the number of girls is 5:9. What is the ratio of the number of girls to the total number of children in the school?
 - (1) 5:9
 - (2) 5:14
 - (3) 9:5
 - (4) 9:14

()

(

)

6. A picture is drawn on a square grid.



What percentage of the square grid is shaded?

- (1) 8%
- (2) 16%
- (3) 40%
- (4) 60%

•

7. The opening hours of a shop are shown below. How long does the shop open each day?

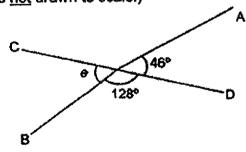
The Automobile Shop

Open Daily

9.15 a.m. to 6.30 p.m.



- (1) 3 h 15 min
- (2) 3 h 45 min
- (3) 9 h 15 min .
- (4) 9 h 45 min
- 8. Express $\frac{3}{8}$ as a decimal.
 - (1) 0.125
 - (2) 0.375
 - (3) 0.625
 - (4) 0.875
- In the figure below, CD is a straight line. Find ∠e.
 (The figure is not drawn to scale.)



- (1) 46°
- (2) 52°
- (3) 58°
- (4) 134°

(

)

(

(

)

10.

Electric scooter for Rent

First hour :

\$12

Every additional $\frac{1}{2}$ hour:

\$4



Miss Lim rented a scooter for 3 hours. How much did she pay?

- (1) \$16
- (2) \$20
- (3) \$24
- (4) \$28

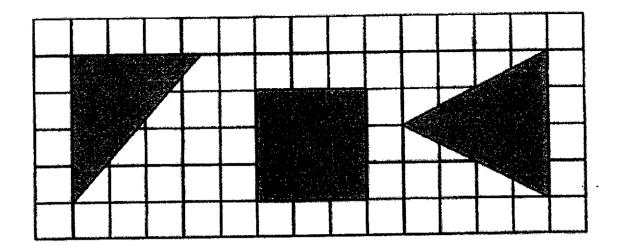
11. Highlighters are only sold in packets of 6. Each packet is sold at \$9.
Mrs Tan has \$50. How many highlighters can she buy at most?



- (1) 30
- (2) 33
- (3) 35
- (4) 36

(

12. In the square grid below, A is a right-angled triangle, B is a square and C is another triangle. Arrange A, B and C from the largest to the smallest area.



ļ	<u>Largest</u>		<u>Smallest</u>
(1)	A,	В,	С
(2)	A,	C,	8
(3)	В,	C,	Α
(4)	C,	A,	В

- 13. Each figure below is made up of 16 squares.
 - 8 squares in each figure are shaded.

Which of the following is a symmetric figure?

(1)

(2)

(3)

(4)

14. The table below shows the number of students in a Primary 5 class. Some of the information is missing.

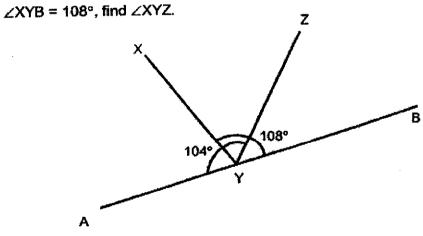
	With CCA	Without CCA	Total
Boys	10		
Girls	15	5	20
Total	25	. 11	36

Based on the given information, what is the ratio of the number of girls without CCA to the number of boys without CCA in the Primary 5 class?

- (1) 5:6
- (2) 6:5
- (3) 5:11
- (4) 6:11

()

15. In the figure below, AYB is a straight line. Given that ∠AYZ = 104° and



- (1) 76°
- (2) 72°
- (3) 32°
- (4) 4°

Que:	stions 16 to 20 carry 1 mark each. Write your ar puestions which require units, give your answer	nswers in the spaces provided. s in the units stated. (5 marks)	Do not write in this space
16.	Express 1005 grams in kilograms.		
		Ans:kg	
17.	What is the missing number in the box? $\frac{8}{12} = \frac{1}{9}$		
		Ans:	
18.	The solid figure below is made up of unit cub What is the volume of the solid figure?	es.	

Subtotal

46	Eind	tha	value	of 2.3	×	200
19	P-1ΠΩΠ	TINE:	Value	U) Z.J	_	444

Do not write in this space

ne'		: L

20. The table below shows Caili's scores for 4 games she played.

Game	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3	4
Score	5	0	9	10

Find the average score for the 4 games she played.

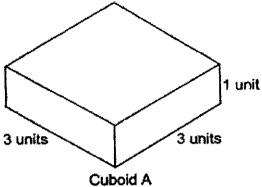
	11
Ans:	

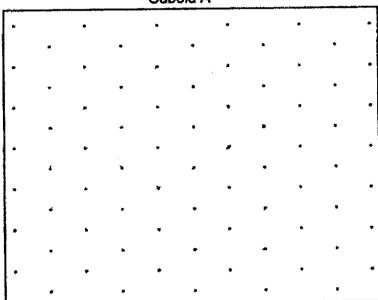
	-	
Subtotal	,	/2

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 figure below shows Cuboid A. Draw a cuboid with a volume twice that of Cuboid A on the isometric grid provided.





22. Sally bought a roll of stickers with pictures as shown in the following sequence. The roll of stickers has 249 stickers. How many of her stickers have the picture of an apple,

 and the second of the second of the second		Control of the Contro	
43			
	-/ 'A. BER		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	, , , , , , , , , , , , , , , , , , ,		Mark 1655 PP /

Ans:	ľ	

Subtotal

23. (a) Find the value of $\frac{3}{4} - \frac{2}{5}$.

Do not write in this space

Give your answer in the simplest form.

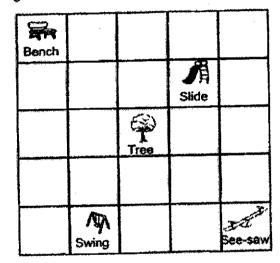
(b) Find the value of $\frac{9}{10} \times \frac{2}{3}$.

Give your answer in the simplest form.

Ans: (a) _____

(b) _____

24. The square grid below shows the plan of a playground in a school.





- (a) Which object is North-East of the Tree?
- (b) Which direction is the Swing from the See-saw?

Ans: (a)

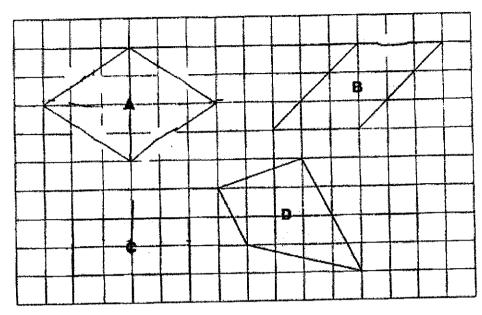
л. х		
(b)	 	 _

1 /	

Subtotal	4	1
	1 6	

25. Four figures, A, B, C and D are drawn on a square grid.

Do not write in this space



Which 2 figures have more than one line of symmetry?

			ŀ
ans-	Figures	Æ	
- W 10-			

- 26. (a) Express 5% as a decimal.
 - (b) Express 12 minutes as a percentage of 1 hour.

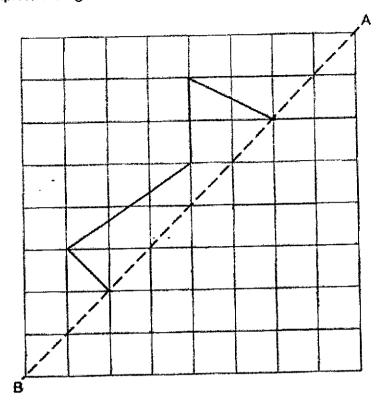
Ans: (a) _____

(b) ______%

Subtotal	14

Faith saved \$240 last month. Her mother decided \$10 she saved. How much did Faith's mother give		r \$2 for every	Do not we in this spa
An	s: \$		
The table below shows the rate of parking charges Parking Charges First hour	s in a carpa	ark.	
Every subsequent 30 minutes or part thereof	\$0.80		
Daniel parked his car in the carpark from 3 p.m. to How much did he pay?	5.20 p.m.		
Ar	ns: \$		
		Subto	

29. Complete the figure below such that line AB is the line of symmetry.



Do not write in this space

 Some teachers and students from Glory Childcare Centre went on a field trip. There were 12 teachers in each group of 20 students.

There were 48 more students than teachers.

How many students went on the field trip?

mm*	

- End of Paper 1 -

Subtotal	14

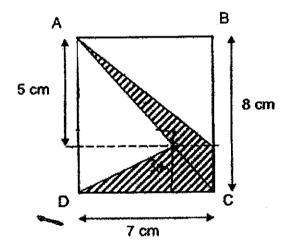
Do not write in this space

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)

1. In an aquarium, there were 1080 goldfish and guppies. The ratio of the number of guppies to the number of goldfish was 5 : 4. How many goldfish were left after 30 goldfish were sold?

Ans:

ABCD is a rectangle. Find the area of the shaded part.

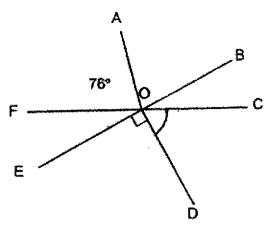


Ans: _____cm²

Subtotal

In the figure below, not drawn to scale, BE and CF are straight lines.
 ∠AOF = ∠AOB. Find ∠COD.

Do not write in this space



Ans: _____

4. Glenda bought some flowers for her teachers on Teachers' Day. If she gave each teacher 4 flowers, there were 3 flowers left over. If she gave each teacher 6 flowers, she would be short of 1 flower. What was the smallest possible number of flowers that Glenda had?

Ans:

Subtotal

5. Mr Faizal cycles $7\frac{2}{5}$ km at a nearby park connector every weekend. His wife cycles 4 km less than him. What is the total distance that both of them cover together?

Do not write in this space

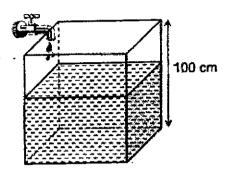
Ans: ____km

Subtotal

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 below shows a cubical tank which is $\frac{3}{5}$ -filled with water.
 - (a) What is the volume of water needed to fill up the tank to the brim?
 - (b) Water is added to the tank at a rate of 4 litres per minute. At this rate, how long will it take to fill the tank completely?



	Subtotal	1
1		
(b)		
\ns: (a)	[2]	

The usual price of a toaster was \$260. During a sale, a discount of 10% was given.

Do not write in this space

- (a) How much was the discounted price?
- (b) Mr Tan bought the toaster during the sale. However, he also had to pay a GST of 7% on the discounted price. How much did he pay for the toaster?

Ans: (a)	(a)		1]
	/L\	ť	~	1

The table below shows the charges for water usage.

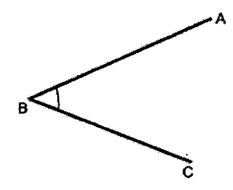
Volume of water	Charge
First 40 m ³	\$1.17 per m³
Above 40 m ³	\$1.40 per m ³

Mrs Lee's family used 66 m³ of water in September. How much did her family pay for the water used?

Ans:	[8]	
	Subtotal	/6

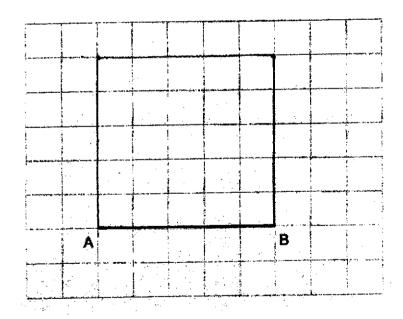
9. (a) In the space below, AB and BC are straight lines. Measure ∠ABC.

Do not write in this space



Ans: (a) ______[1]

(b) On the square grid below, AB is a straight line. Draw a square ABCD. [2]



	·
Subtotal	10
	13

10. The average mass of 3 children, Xavier, Jeremy and Zen, is 54 kg. Xavier is 60 kg. Jeremy and Zen are of the same mass. How heavy is Zen? Do not write in this space

\ns:	ſ	3	1
1112	The second secon	_	4

- 11. Alex had twice as many marbles as Benjamin at first. Alex then gave away 33 marbles to another friend. Alex now has 16 more marbles than Benjamin.
 - (a) How many marbles does Alex have now?
 - (b) How many marbles did Alex and Benjamin have at first?

Ans: (a)	[2	ļ
	/			_

Subtotal	1	7
Andrews :	,	

12. Jimmy started saving part of his pocket money by putting 2 coins in a money box every day. Each coin was either a 20¢ or 50¢ coin. His mother also put in a \$1 coin in the box every 7 days. The total value of the coins after 98 days was \$82.30.

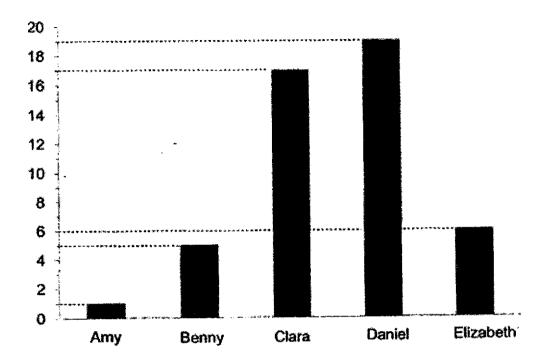
Do not write in this space

- (a) How many coins were there altogether?
- (b) How many of the coins were 50¢ coins?

Ans:	(a)	[2]	
	(h)	[2]	

13. The graph below shows the number of stickers bought by 5 children.

Do not write in this space



- (a) What is the total number of stickers bought by the 5 children?
- (b) What percentage of all the stickers are bought by Elizabeth?

Ans:	(a)	[2]

(b)_

[2]

14. Auntie Lucy baked 128 pies and some cookies.

She gave away $\frac{3}{8}$ of her pies and $\frac{2}{7}$ of her cookies. She had 155 cookies left.

- (a) How many pies did she give away?
- (b) How many cookies did she give away?

Ans: (a) [2]

(b) [2]

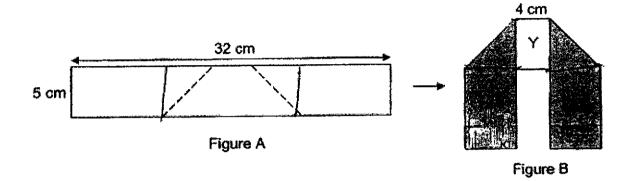
Do not write

in this space

15. Figure A shows a rectangular piece of paper 32 cm by 5 cm which is coloured on one side. It is folded along the dotted line to form Figure B.

Do not write in this space

- (a) Find the area of the rectangular piece of paper.
- (b) Find the total area of X, Y and Z in Figure B.



Ans: (a)[1]	
(p)[3]	



Figure 1

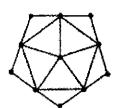


Figure 2

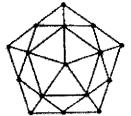


Figure 3

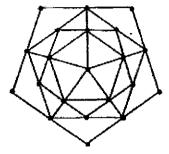


Figure 4

The table shows the number of dots and the number of non-overlapping triangles for each figure.

Figure number	Number of dots	Number of non- overlapping triangles
	6	5
2	11	10
3	16	20
4	21	25
5	(i)	(ii)

- (a) Fil in the table for Figure 5.
- (b) What is the number of dots in Figure 10?
- (c) In which Figure number will there be 106 dots?

Ans: (a) (i)	11]
(ii)	[1]
(b)	1
(c)	[2]

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l		
Н		l

There were 38 pupils in a class. Each of them contributed \$10 towards a Do not write 17. in this space charity drive. The form teacher contributed \$70. $\frac{2}{5}$ of the total amount contributed was spent on buying food items. $\frac{1}{9}$ of the remainder was spent on stationery. After spending some money on toiletries, there was \$93 left. (a) What was the total amount contributed? (b) How much was spent on toiletries? Ans: (a)_____

End of Paper 2 -

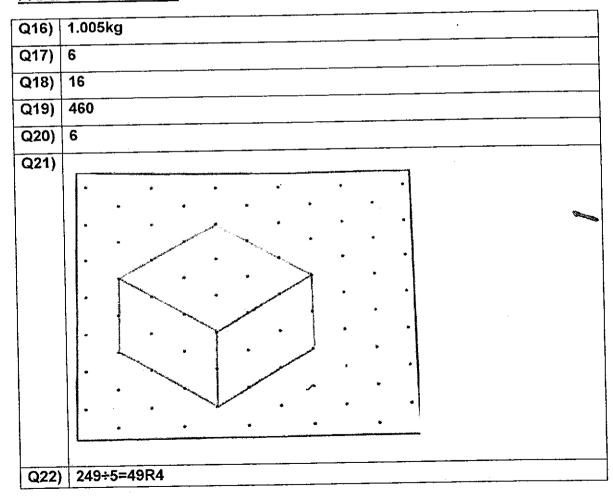
[8]____

PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	ĺ
4	2	2	3	. 4	3	3	2	2	4	

Q 11	Q12	Q13	Q14	Q15	
1	3	2	1	3	

PAPER 1 BOOKLET B



	49+1=50
	Ans:50
Q23)	a) 7/20
Q20,	b) 3/5
Q24)	a) Slide
	b) West
Q25)	A&C
Q26)	a) 0.05
	b) 20%
Q27)	240÷10=24
}	24x2=48
·	Ans: \$48
Q28)	0.8x2=1.6
	1.3+1.6=2.9
	2.9+0.8=3.7 Ans: \$3.70
Q29)	Ails. \$5.70
Q30)	20-12=8 48÷8=6 6x20=120 Ans:120 students

PAPER 2

Q1)	guppies:goldfish 5:4	
	Total→ 9u	
	1u→ 1080÷9=120	
	4u → 120x4=480	
	480-30=450	
	Ans: 450 goldfish	
Q2)	8-5=3	
	1/2x3x3=10.5	
	1/2x3x3=10.5	
	10.5x2=21	
	Ans: 21cm	

Q3)	76+76=152
~-,	180-152=28
!	152+28+28+90=298
	360-298=62
	Ans:62°
Q4)	4+3=7
	6-1=5
	4 11.7 6
	T.4100
	ן אווו ס
	0 111112
	1 +2 -1
1	
,	Ans: 11
Q5)	72 4-22
	75-4-3-5
	$7\frac{2}{5} + 3\frac{2}{5} = 10\frac{4}{5}$ Ans: $10\frac{4}{5}$ km
	Ans: 10-km
	5
Q6)	a)
	$1 - \frac{3}{5} = \frac{2}{5}$
	$100 \times \frac{2}{5} = 40$
1	
	100 x 100 x 40 = 400000 400000me of water is needed to fill up the tank.
	400000IIIC OF Water is necessaria in ap and assume
	(b)
	400000 ÷ 4000 = 100
	It will take 100 minutes for the tank to be filled completely.
071	
Q7)	a)
	100% → 260 40% → 260 ÷ 10
	10% → 260 ÷ 10
	= 26
	200 – 26 = 324
	The discounted price was \$234.
1	
	b)
	100% → 234
	7% → 234 ÷ 100 x 7
	= 16.38
	234 + 16.38 = 250.38

Г	He paid \$250.38 for the toaster.
	The para 4200.00 for the control of the para 4200.00 for the para 4200.0
Q8)	66 – 40 = 26
	1.17 x 40 = 46.80
	1.4 x 26 = 36.40
	46.80 + 36.40 = \$83.20
Q9)	a) ·
	45°
-	•
	b)
	\Box
	AB
	54 x 3 = 162
Q10)	162 - 60 = 102
	102 ÷ 2 = 51
	Zen is 51kg
Q11)	
	A 16 33
	В
	a) 33 + 16 = 49
	49 + 16 = 65
	Alex has 49 marbles.
	Alex has 40 marshes.
	b)
	49 x 3 = 147
1	They have 147 marbles at first.
Q12)	
3.2)	No. of 1 dollar coins = 98 ÷ 7
	= 14
	No. of 20ϕ and $50\phi = 98 \times 2$
	= 196
	196 + 14 = 210. There were 210 coins.
	Fligie Meie Vio come.

b) Value of 20¢ and	50¢ = 82.30 - 14
·	= 68.30

20¢	Cost	50¢	Cost	Total	√IX
98	98 x 0.20 = 19.6	98	98 x 0.50 = 49	19.6 + 49 = 68.60	X
99	99 x 0.20 = 19.8	97	99 x 0.50 = 48.5	19.8 + 48.5 = 68.30	√

97 of the coins were 50¢ coins.

$$1 + 5 + 17 + 19 + 6 = 48$$

The total number is 48.

$$= 0.48$$

$$6 \div 0.48 = 12.5\%$$

12.5% are bought by Elizabeth.

Q14)

$$3U \rightarrow 16 \times 3$$

She gave away 48 pies.

She gave away 62 cookies.

Q15)

$$32 \times 5 = 160$$

The area is 160cm²

$$32 - 4 = 28$$

$$9 \times 5 = 45$$

$$45 \times 2 = 90$$

$$\frac{1}{2}$$
 x 5 x 5 = 12.5

