

MARIS STELLA HIGH SCHOOL (PRIMARY) TERM 1 WEIGHTED ASSESSMENT PRIMARY 6 MATHEMATICS 3 MARCH 2023

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NAME :		
CLASS : PRIMA	ARY 6	

INSTRUCTIONS TO CANDIDATES

- 1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
- 2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
- 3. ANSWER ALL QUESTIONS.
- 4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
- 5. WRITE YOUR ANSWERS IN THIS BOOKLET. YOU ARE <u>ALLOWED</u> TO USE A CALCULATOR.

	MARKS OBTA	AINED
TOTAL	/ 55	Parent's Signature: Date:

	h ques	1 to 5 carry 2 marks each. Sho tion and write your answers in the your answers in the units state	he spaces provided. For questions	ce provided for Swhich require (10 marks)
1.	(a)	Write down the first common	ı multiple of 4 and 6.	, . =
	(b)	Write down all the common f	actors of 15 and 20.	
			Answer: (a)	-
			(b)	
2.		ne poured 3000 ml of apple juice were there in one bottle?	e into 4 identical bottles. How man	y litres of apple
				i

SCORE (Go on to the next page)

Find the amount of GST for the sofa shown. The price shown below does not include Do not 3. write in GST. this space. \$1255 Price before of **8% GST** Answer: \$ _____ Dexter's height is $\frac{5}{6}$ of Gavin's height. Gavin is 120 cm fall. Find their total height. Answer: ____ cm

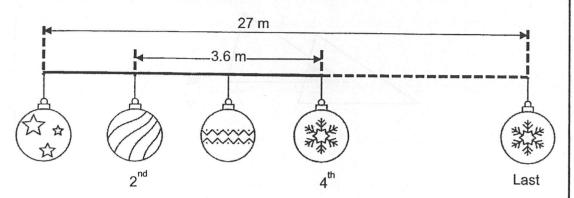
2

sweets Meiling had to the number of sweets Ahmad had to the number of sweets Gopal had was 2:3:4. How many sweets did Gopal have?	write in this space.
Answer:	

write y	our an	nswers in the spaces provided. The number of marks available is shown in the	Do not write in this space.
6.	(a)	Merry Cafe sold 25 999 ice cream bars last year. Express this number to the nearest ten.	
	(b)	Use all the digits 3, 4, 5, 6 to form	
	` ,	(i) the smallest multiple of 2.	
		(ii) the greatest number between 5000 and 6000.	
		Answer: (a)[1]	
		(b) (i)[1]	
		(b) (ii)[1]	
7.	How	s has \$1260 in his bank account. The bank pays him an annual interest of 2.5%. much money will he have in his bank account after a year if he does not lraw any of his savings?	
		Answer:[3]	

8. Christmas ornaments were displayed in a straight line at equal distance apart. The distance between the 2nd and the 4th ornament was 3.6 m. The first ornament and the last ornament was 27 m apart. How many ornaments were there?

Do not write in this space.



Answer: _____ [3]

g. Grace had some money. She spent \$2200 on a watch and $\frac{1}{5}$ of her remaining money on some books. She had $\frac{1}{4}$ of her money left. How much money did she have at first?

Answer. _____ [3]

10.	The figure below shows 2 identical triangles. The shaded area is 18% of each triangle. Find the ratio of the shaded area to the area of the figure.	Do not write in this space.
	Answer: [3]	

6

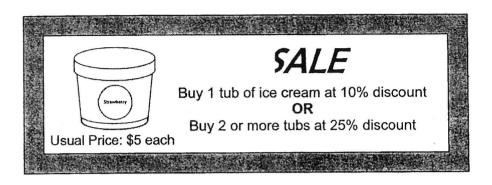
SCORE

(Go on to the next page)

many dougl	nnuts did he	buy?						
								81
	v.							
								1
							,	
				Answ	/er:			[3]

12. At a sale, MSHP Supermarket sold tubs of ice cream as shown in the poster below.

Do not write in this space.



(a)	Nancy bought or	e tub of ice cre	eam at the sale.	How much	did she pa	ıy?
-----	-----------------	------------------	------------------	----------	------------	-----

Answer: (a) _____ [1]

(b) Charles had \$36. What was the **maximum** number of tubs of ice cream he can buy with \$36?

Answer: (b) _____ [3]

8

13. Tom spent $\frac{1}{5}$ of his money on 7 notebooks and 4 pens. The cost of each notebook is twice the cost of each pen. He bought some more pens with $\frac{3}{10}$ of his money. How many pens did he buy altogether?

Do not write in this space.

Answer: _____ [4]

9

14.	Daisy, Eve and Fiona had 720 stickers altogether. Daisy gave 25% of her stickers to Eve and 35% of her stickers to Fiona. In the end, each of the 3 girls had the same number of stickers. What is the difference in the number of stickers Eve and Fiona had at first?	Do not write in this space.
		ı.
		3 5
,	Answer: [4]	
	10 SCORE (Go on to the next page)	

Answer: (a) [2] Answer: (a) [2] The number of cartons of apples Tim bought was $\frac{3}{5}$ of the number of cartons of papayas bought. Each carton of apples was \$28 more than each carton of papayas. (b) How many cartons of papayas did he buy?	The	bought some cartons of apples and papayas. cost of all the apples was twice that of all the papayas. total cost of the apples and papayas was \$540.	Do not write in this space.
The number of cartons of apples Tim bought was $\frac{3}{5}$ of the number of cartons of papayas bought. Each carton of apples was \$28 more than each carton of papayas. (b) How many cartons of papayas did he buy?	(a)	How much was the cost of the apples?	T.
The number of cartons of apples Tim bought was $\frac{3}{5}$ of the number of cartons of papayas bought. Each carton of apples was \$28 more than each carton of papayas. (b) How many cartons of papayas did he buy?			
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papayas bought. Each carton of apples was \$28 more than each carton of papayas. (b) How many cartons of papayas did he buy?		()	
Answer: [3]	(b)	How many cartons of papayas did he buy?	
Answer: [3]			
Answer:[3]			
Answer:[3]			
Answer: [3]			
Answer: [3]			
Answer:[3]			
Answer: [3]			
		Answer: [3]	

(16.	There are 836 students in Everland Primary Sch girls take the school bus to school. The number of bus is twice the number of girls who do not take the there in the school?	of boys who do not take the school	Do not write in this space.
		Answer:[5	5]

12

SCORE

(Go on to the next page)

1	n total, Adam has 9 more pens than Ber Adam.			
• -	The ratio of the number of red pens Ada nas is 5 : 3.	m has to the	e number of	red pens Ben
• (The ratio of the number of green pens to 3:1.	o the numbe	er of red pen	s Clive has is
(a)	How many red pens do Adam and Ben	have altoge	ether?	
		Answer:	(a)	[3]
(b)	Each statement below is either true, fal			
(b)	Each statement below is either true, fal information given. For each statement,	se, or not po	ossible to tell	from the
b)	Each statement below is either true, fal information given. For each statement,	se, or not poput a tick (✓	ossible to tell () to indicate	from the your answer.
(b)	Each statement below is either true, fal information given. For each statement,	se, or not po	ossible to tell	from the your answer.
(b)	Each statement below is either true, fal information given. For each statement, Among the three boys, Adam has the most number of pens.	se, or not poput a tick (✓	ossible to tell () to indicate	from the your answer. Not possible
(b)	Among the three boys, Adam has	se, or not poput a tick (✓	ossible to tell () to indicate	from the your answer. Not possible
(b)	Among the three boys, Adam has the most number of pens. In total, Clive has an odd number of	se, or not poput a tick (✓	ossible to tell () to indicate	from the your answer. Not possible to tell
(b)	Among the three boys, Adam has the most number of pens. In total, Clive has an odd number of	se, or not poput a tick (✓	ossible to tell () to indicate	from the your answer. Not possible

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13



MARIS STELLA HIGH SCHOOL (PRIMARY) PRIMARY 6 MATHEMATICS TERM 2 WEIGHTED ASSESSMENT

11 MAY 2023

17 questions

TOTAL: __

tai i	Time: 1 hour and 30 minutes		
	NAME:	()
	CLASS: PRIMARY 6		
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JO INC	TOPEN THIS BOOKLET UNTIL TOO A	IKE TOLD TO DO S	. O.
FOLLO	OW ALL INSTRUCTIONS CAREFULLY.		
	OW ALL INSTRUCTIONS CAREFULLY. ARE <u>ALLOWED</u> TO USE A CALCULATO	R.	
YOU A		R.	
YOU A	RE <u>ALLOWED</u> TO USE A CALCULATO	R.	genul

/55

Date:

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question 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.

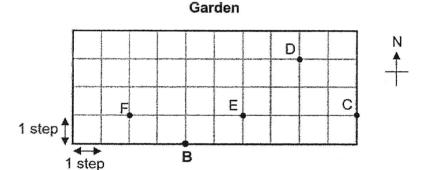
- 1. Use all the digits 0, 2, 5, 3 to form
 - (a) the smallest 4-digit odd number

Answer: (a) _____

(b) the greatest multiple of 5

Answer: (b) _____

2. John was strolling in a garden and he started his stroll at position **B** facing north.



John took 2 steps west then 3 steps north and finally 2 steps west.

- (a) Mark 'X' on the grid to indicate John's final position.
- (b) Which letter (C, D, E or F) is south-east of John's final position?

Answer: **(b)**

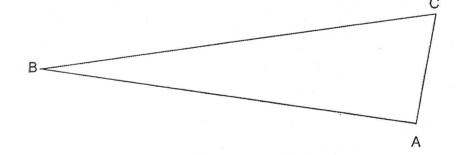
1

3.	Mrs Lee spent $\frac{2}{7}$	of her salary on a bag	. The bag cost \$320.	How much was Mrs
	Lee's salary?			

Do not write in this space.

Answer: \$ ____

- 4. Measure and write down
 - (a) the length of BC.
 - **(b)** the size of ∠ABC.



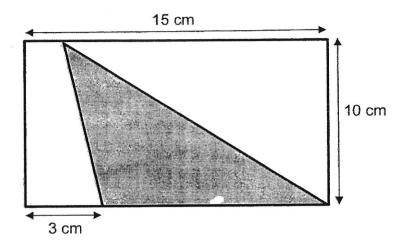
Answer: (a) ______ cm

(b) _____°

2

5. Find the area of the shaded triangle.

Do not write in this space.

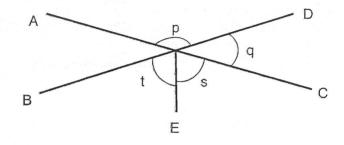


Answer: _____cm²

For Questions 6 to 17, show your working clearly in the space below each question 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. (45 marks)

Do not write in this space.

6. AC and BD are straight lines. \angle s = \angle t. \angle s is 65°.



(a) Find ∠p.

Answer: (a) _____[1]

(b) Find ∠q.

Answer: **(b)** _____[2]

4

7.	There were some men and women at a concert. 24 women left and as a result, the percentage of men at the concert increased from 50% to 70%. How many people were at the concert at first?	Do not write in this space.
	Answer:[3]	
	5 SCORE	
	(Go on to the next page)	

8.	The number of 50-cent coins to the number of 20-cent coins that Liam kept in a box is in the ratio 7: 4. Each day, he took out \$1 worth of 50-cent coins and replaced them with \$1 worth of 20-cent coins. After 12 days, he had an equal number of 20-cent coins and 50-cent coins in his box. How many 50-cent coins were left in the box after 12 days?
	after 12 days?

Do not write in this space.

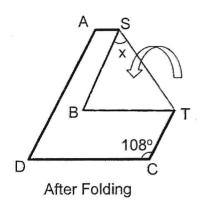
Answer:	[3]
	19

9. Sara and Maddy had an equal amount of money at first. Sara received \$60 from her aunt and Maddy spent \$332. Then Maddy had $\frac{1}{9}$ of what Sara had. How much in total did the two of them have in the end?

Answer: _____ [3

10. ABCD is a piece of paper in the shape of a parallelogram. It is folded along line ST as shown below, where SB = BT. Find $\angle x$.

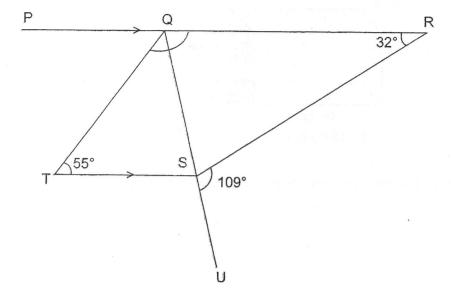
Do not write in this space.



Answer: _____[3

7

11. PQR and QSU are straight lines.



(a) Find ∠TQR.

Answer: (a) _____[1]

Do not

write in this

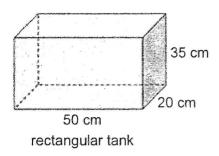
space.

(b) Find ∠TSU.

Answer: (b) _____[2]

12. Meihua has some 2-cm cubes. She packs the cubes in the rectangular tank shown below.

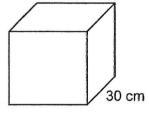
Do not write in this space.



(a) At most, how many 2-cm cubes can she pack in the tank?

Answer:	(a)		[2]	
---------	-----	--	-----	--

(b) Meihua removed all the cubes and filled the rectangular tank with water to the brim. The water from the rectangular tank was then poured into a cubical container of sides 30 cm to its brim. How many litres of water was left in the rectangular tank?



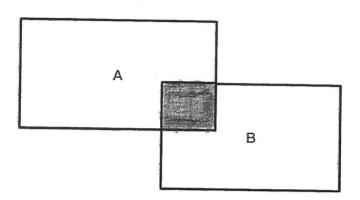
cubical container

Answer:	(b)	[2]

9

The figure below shows 2 overlapping rectangles, A and B. The ratio of the area of rectangle A to the area of rectangle B is 10: 9. 20% of rectangle A is shaded. The total unshaded area of rectangles A and B is 450 cm². What is the area of the shaded part?

Do not write in this space.



Answer:

10

SCORE

(Go on to the next page)

voucher that gave her a 20% discount and she got 3 cupcakes more than Peter. (a) How many cupcakes did Joey get?		
(b) Find the discount given for each cupcake.		
Answer: (a)	[2]	
(b)	[2]	
 11	SCORE	
(Go on	to the next page)	

Joey and Peter bought some cupcakes. Each of them spent \$18. Joey used a

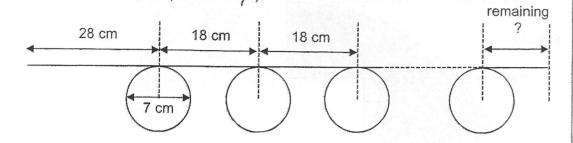
14.

Do not

write in

15. Mr Yip has 5 m of wire. He bends the wire to form as many identical circles as possible at an equal distance apart in the pattern as shown below. The diameter of each circle is 7 cm. The distance from the centre of one circle to the centre of the next circle is 18 cm. (Take $\pi = \frac{22}{7}$)

Do not write in this space.



(a) What is the length of the remaining wire?

Answer: (a) ______[4]

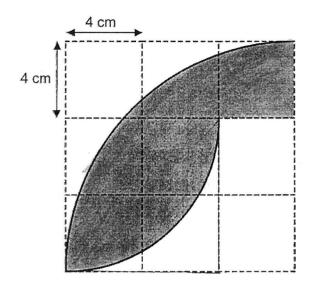
(b) How many circles did he form?

Answer: **(b)** _____[1]

12

16. The figure below shows 2 quarter circles of 2 different sizes on a square grid. The side of each small square is 4 cm. Find the area of the shaded part. (Taking $\pi = 3.14$)

Do not write in this space.



Answer: [5]

17. Study the pattern below.

Do not write in this space.

Figure number	Number of dotted lines	Number of circles	Number of triangles
1	3	3	1
2	6	5	2
3	9	7	3
4	12	9	4
5	a(i)	a(ii)	5

(a) Complete the table for a(i) and a(ii).

[1]

(b) Which figure contains 114 dotted lines?

Answer: **(b)** _____[2]

(c) A figure has 51 triangles. How many circles are there in this figure?

Answer: (c) _____[2]

End of Paper

YEAR : 2023

LEVEL: PRIMARY 6

SCHOOL: MARIS STELLA HIGH SCHOOL (PRIMARY)

SUBJECT: MATHEMATICS

TERM. : TERM 1 WEIGHTED ASSESSMENT

TERM 1 WEIGHTED ASSESSMENT

ILIVIAL	1 VVEIGITIED ASSESSIVIEIVI	.5. 1. 12.	
Q1	(a) 12	Q2	3000 ÷ 4 = 750ml
7	(b) 1, 5		= 0.75 <i>l</i>
Q3	100%→ \$1255	Q4	D = 5u
	1% → \$12.55		G = 6u
	8% → \$100.40		Total = D + G
			G = 6u = 120cm
		(1u = 20cm
	,		11u : 220cm
Q5	Total = M + A + G	Q6	(a)
	= 2u + 3u + 4u	11	2.3
	= 9u		0 60
3	= 162		(b)
	1u = 18		(b) (i) 3456
	G = 4u	1 0	(ii) 5643
÷. :	= 72		Ol on
Q7	100% → \$1260	Q8	Gaps between 2 nd and 4 th = 2gaps
	1% → \$12.60		= 3.6m
9	0.5% → \$6.30		1 gap = 1.8m
	2.5% → \$31.50	710	27 ÷ 1.8 = 15 gaps
	\$1260 + \$31.50 = \$1291.50	11.	15 + 1 = 16
Q9	$\frac{1}{4} \times \frac{1}{4} = \frac{1}{16}$	Q10	$\frac{18}{1} = \frac{9}{1}$
	1 5	. 25	100 50 1un = 100% - 18% = 82%
	$\frac{\frac{1}{16} \times 5 = \frac{3}{16}}{\frac{16}{16} - \frac{5}{16} = \frac{11}{16}}$ $\frac{1}{16} = 200 $Total = \frac{16}{16} = 3200	Fig	1un = 100% - 18% = 82% 2un = 164%
	$\frac{\frac{1}{16}}{\frac{16}{16}} \cdot \frac{5}{16} = \frac{11}{16}$ $\frac{1}{16} = 5200$	1	Shaded: Unshaded
	16 16 16		18 : 164 + 18
	$\frac{1}{16} = 200		184
	Total = $\frac{16}{16}$ = \$3200		18:182
011	70	042	9:91
Q11	0.8 x 3 = 2.4	Q12	(a) 90% x 5 = 4.50
	30 + 2.4 = 32.4		(b) 75% x 10 = 7.50
	1.4 - 0.8 = 0.6		$36 \div 7.5 = 4R6$
	$32.4 \div 0.6 = 54$		4 x 2 = 8
040	70.40.40.40	044	8 + 1 = 9
Q13	7N + 4P = 14P + 4P	Q14	$25\% \Rightarrow \frac{1}{4}$
	= 18p		$35 \Rightarrow \frac{7}{20}$
	1N = 2P		
	7N = 14P		720 ÷ 3 = 240
	27P + 4P = 31P		240 ÷ 8 = 30
			E = 3u = 90
			90 - 30 = 60

Q15	(a) 3u = 540 1u = 180 2u = 360 (b) Cost of A = 360 Cost of P = 180 - 5u 1u of A = 120 1u of P = 236 3 x 5 = 15	Q16	$\frac{3}{10} \text{ of B} = \frac{3}{12} \text{ of G}$ $836 \div 22u = 38$ $38 \times 12 = 456$	
Q17	2u = 14			
-	1u = 7			

8u = 56

YEAR : 2023

LEVEL : PRIMARY 6

SCHOOL: MARIS STELLA HIGH SCHOOL

SUBJECT: MATHEMATICS

TERM. : TERM 2 WEIGHTED ASSESSMENT

Q1	(a) 2035	7	Q2	
42	(b) 5320		QZ	Garden
				*
	-			1 step 1
				1 step B
		247.41		(b) F
Q3	$\frac{2}{7}$ of total salary = 320		Q4	(a) 10.8cm
	$\frac{1}{7}$ of total salary = 3		110	(b) 16
	1 /			060
Or	$\frac{7}{7}$ of total salary = \$1120		0.0	() 55 - 55 - 1000
Q5	$\frac{1}{2}$ x 12 x 10 = 60cm		Q6	(a) $65 + 65 = 130^{\circ}$ (b) $\frac{360 - 130 - 130}{2} = 50^{\circ}$
171				
Q7	M : W	M:W	Q8	7 x 12 = 84
	15u : 35u	7p:3p		3u = 84
	21p : 21p		K .	1u = 28 7u = 196
	15u = 21p 35u - 168 = 21p	00	17	196 - 28 = 172
	35u - 15u = 20u		1/	130 - 28 - 172
	20u = 168	.0	7 6	
	10u = 84	lin	17.0	
Q9	8u = 332 + 60		Q10	180 – 108 = 72
	= 392	inde nu		$X = \frac{180 - 72}{2}$
	1u = 49	42/10		= 54° 2
011	10u = \$490			
Q11	(a) 189 - 32 = 148 360 - 55 - 32 - 148 = 125 (b) 360 - 148 - 109 = 103°		Q12	(a) 50 ÷ 2 = 25
				$20 \div 2 = 10$ $35 \div 2 = 17R1$
				25 x 10 x 17 = 4250
				(b) Capacity of rectangle tank = 50 x
				20 x 35 = 35 000
				30 x 30 x 30 = 27 000
,				35 000 – 27 000 = 8000
				8000 ÷ 1000 = 8L
				*
		1 -		

_			
Q13	A + C : B + C	Q14	$\frac{80}{100}$ x 18 = 14.40
	10:9		$ \begin{array}{c} 100 \\ 18 - 14.40 = 3.60 \end{array} $
	$\frac{1}{2}$ x 10 = 2		Cost of 3 cupcakes = \$3.60
	2 A:B:C		Cost of 1 cupcake = 1.2
	8:7:2		a) 10 ÷ 1.2 = 15
	8u + 7u = 15u		15 – 3 = 12
	15u = 450		$\frac{18}{12} = 1.50$
	1u = 30		12 18
	2u = 30 x 2		$\frac{18}{15} = 1.20$
	= 60cm ²		1.50 - 1.20 = \$0.30 (b)
Q15	a) Circumference = ∏D	Q16	Area of big quadrant = $\frac{1}{4} \times \prod \times r \times r$
	$=\frac{22}{7} \times 7$		$=\frac{1}{4} \times 3.14 \times 12 \times 12$
	= 22cm		= 113.04
	500 – 28 = 472		Area of small quadrant = $\frac{1}{4} \times \prod \times r \times r$
	1 set = 22cm + 18cm = 40cm		1
	As gaps are 1 less than circle,		$=\frac{1}{4} \times 3.14 \times 8 \times 8$
	472 + 18 = 490	11	Area of small square = 8 x 8 = 64
	$\left \frac{490}{40} = 12R10 \right $		Area of A = $64 - 50.24$
	Ans: 10cm		= 13.76
	b) 12		Area of whole square = 12 x 12
			= 144
		C	Area of B = 144 – 113.04
			= 30.96
		V	Area of 2 small squares = (4 x 4) x 2 = 32
			Area of shaded part = 144 – (32 +
		12	
		4)	= 67.28cm ²
Q17	(a)	. 0	, 07.20011
Q1/	(i) 15	1/10	
	(ii) 11	7.	
	10 14		
	(b) Will 1		
	(a) (i) 15 (ii) 11 (b) 114 ÷ 3 = 38		
	60.		
	(c)		
	$(51 \times 2) + 1 = \underline{103}$		

€ N P