MARIS STELLA HIGH SCHOOL (PRIMARY)

CONTINUAL ASSESSMENT 1

PRIMARY 6 MATHEMATICS

1 MARCH 2022

PAPER 2

17 questions

55 marks

Time: 1 h 30 min

NAME :_____( )

CLASS : PRIMARY 6 _____

INSTRUCTIONS TO CANDIDATES

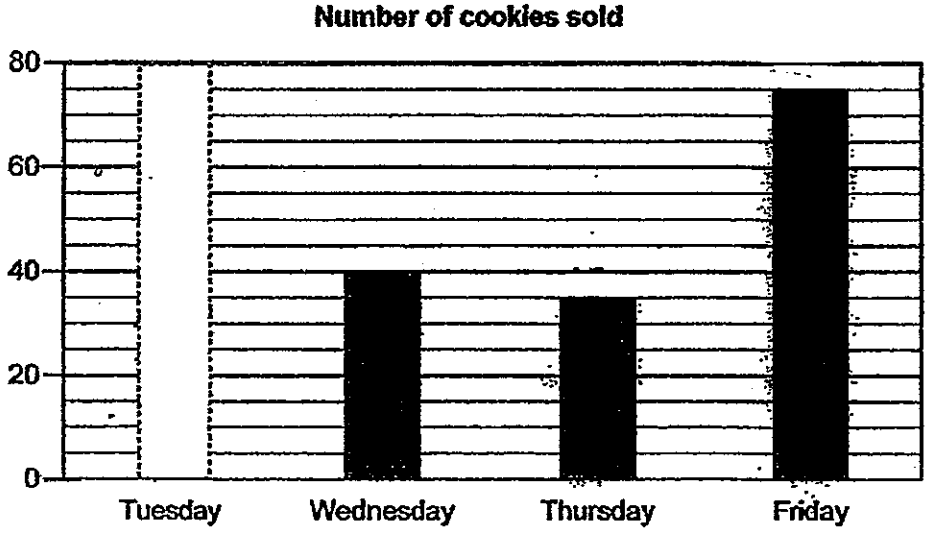
1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
3. ANSWER ALL QUESTIONS.
4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
5. WRITE YOUR ANSWERS IN THIS BOOKLET.
6. YOU ARE ALLOWED TO USE A CALCULATOR.

MARKS OBTAINED FOR		
PAPER 1 (BOOKLET A & B)	/ 45	Parent's Signature:
PAPER 2	/ 55	_____
TOTAL	/100	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. The graph below shows the number of cookies sold in a bakery from Wednesday to Friday in a week.



The average number of cookies sold from Wednesday to Friday in the week was equal to the average number of cookies sold from Tuesday to Friday. How many cookies were sold on Tuesday?

Answer: _____

2. A container was $\frac{1}{4}$ filled with water at first. When 960 cm^3 more water was poured into the container, it became $\frac{3}{4}$ filled with water. What was the capacity of the container? Leave your answer in litres.

Answer: _____ ℓ

SCORE

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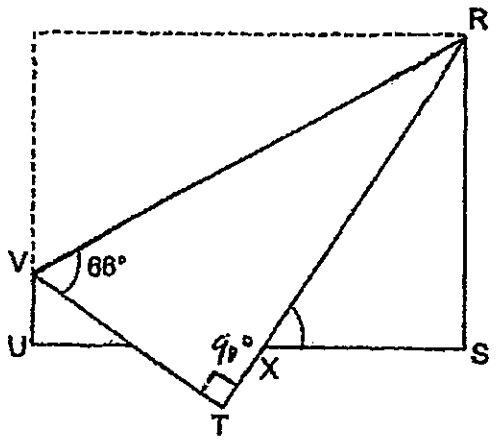
3. In the figure below, a rectangular piece of paper is folded along VR as shown. Find ∠RXS.



Do not write in this space.

Answer: _____°

4. Aminah bought some blouses at an average price of $12. Then, she decided to buy 3 more blouses at $18 each. The average price of all the blouses increased by $2. Find the total number of blouses she bought at first.

Answer: _____

SCORE

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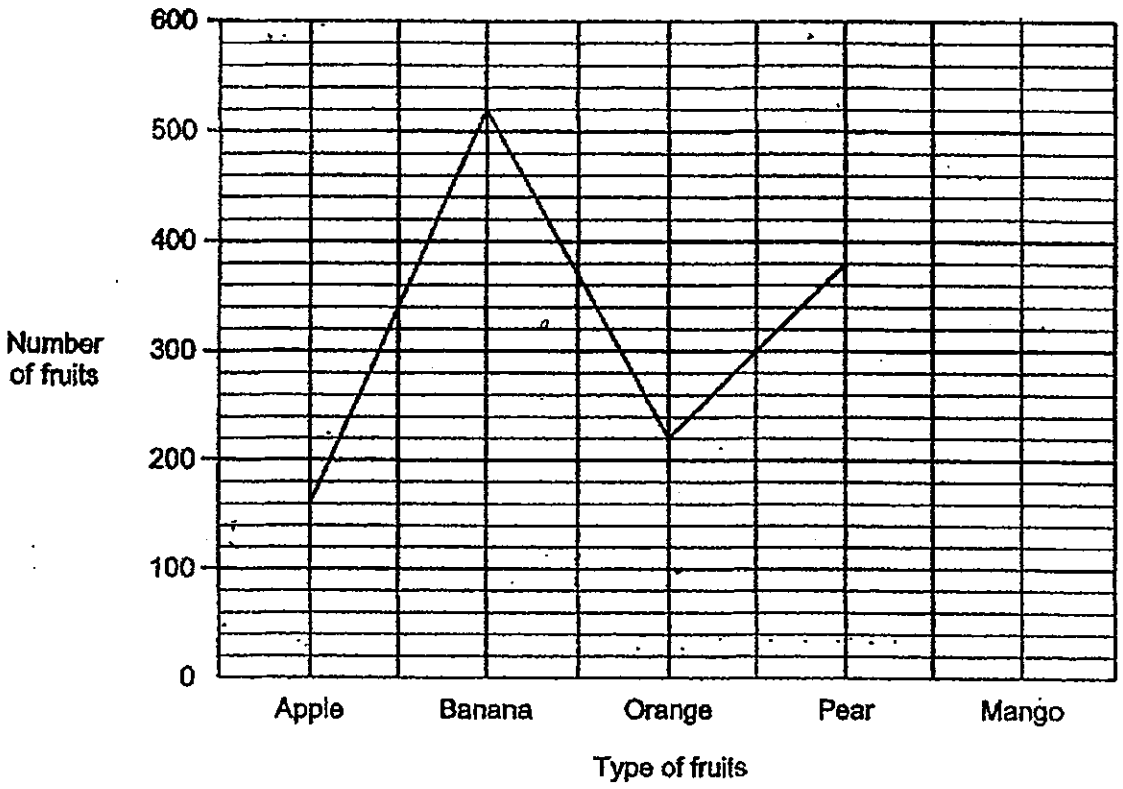
5. **The graph below shows the number of fruits sold in a week.**

Do not write in this space.



The number of mangoes sold in the week was $\frac{1}{5}$ of the total number of fruits sold.

How many mangoes did the shop sell for the week?

Answer: _____

SCORE

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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. $\frac{7}{25}$ of the people in a stadium are men. The rest are boys, girls and women in the ratio of 2 : 3 : 4. There are 1600 people in the stadium.

(a) What percentage of the people in the stadium are children and women?

(b) How many children are there in the stadium?

Answer: (a) _____ [1]

(b) _____ [2]

SCORE

(Go on to the next page)

7. Tom had 384 more stickers than Mala. After Mala gave Tom 244 of her stickers, she had $\frac{1}{3}$ as many stickers as Tom. How many stickers did Tom have at first?

Do not write in this space.

Answer: _____ [3]

SCORE
(Go on to the next page)

8. Minghua spent some money on 22 pens. He spent the same amount of money on another 16 notebooks. Each notebook cost $0.45 more than each pen. How much did Minghua spend altogether?

Do not write in this space.

Answer: _____ [3]

9. Lisa spent 5 days folding paper cranes for her friends. Every day, she managed to fold 2 more paper cranes than the day before. She folded 35 paper cranes altogether. How many paper cranes did she fold on the third day?

Answer: _____ [3]

SCORE

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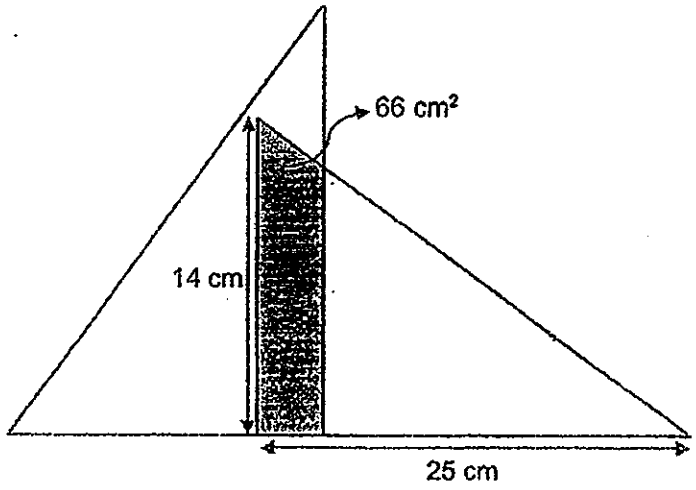
10. Two identical triangles overlap each other as shown in the figure. The area of the shaded part is 66 cm^2. What is the area of the figure that is not shaded?

Do not write in this space.



Answer: _____ [3]

SCORE

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11. Raju used $\frac{4}{9}$ of his money to buy some shirts and $\frac{2}{5}$ of the remainder to buy 2 pairs of pants. A pair of pants cost 3 times as much as a shirt.

(a) How many shirts did he buy?

(b) Raju had $252 left. How much did each shirt cost?

Do not write in this space.

Answer: (a) _____ [1]

(b) _____ [3]

SCORE

(Go on to the next page)

12. Ahmad, Bala and Charlie baked some cookies. Ahmad baked $\frac{1}{5}$ of the cookies, Bala and Charlie baked the remaining cookies in the ratio of 3 : 5. Charlie baked 405 more cookies than Ahmad. Ahmad ate 6 of the cookies he had baked and packed all the rest of his cookies into bags of 12. How many bags of cookies were there?

Do not write in this space.

Answer: _____ [4]

SCORE

(Go on to the next page)

13. A fruit stall had some red and green apples in the ratio of 3 : 5 respectively. $\frac{1}{3}$ of the red apples and $\frac{2}{3}$ of the green apples were sold.

(a) What was the ratio of the number of red apples to the number of green apples left?

(b) There were 165 apples left. How many red and green apples were sold altogether?

Do not write in this space.

Answer: (a) _____ [2]

(b) _____ [2]

SCORE

(Go on to the next page)

14. A rectangular tank measuring 60 cm by 50 cm by 30 cm was $\frac{3}{5}$ filled with water.

When 6 full pails of water were removed from the tank, the water level dropped to 12 cm when measured from the base of the tank.

(a) How many litres of water was in the tank at first?

(b) Find the capacity of each pail in litres.

Do not write in this space.

Answer: (a) _____ [1]

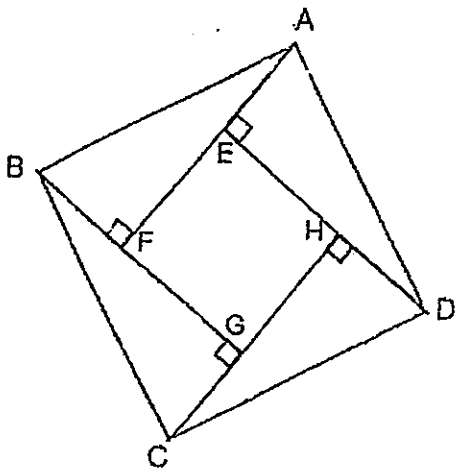
(b) _____ [3]

SCORE

(Go on to the next page)

15. Four identical right-angled triangles are arranged to form a square ABCD as shown below. The shaded area of the figure is 1080 cm^2. AE is 15 cm. Find the area of square EFGH.

Do not write in this space.



Answer: _____ [4]

SCORE

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16. In the Science Club last year, $\frac{3}{10}$ of the members were boys. After 45 more girls joined the CCA this year, the ratio of the number of boys to the number of girls in the CCA became 6 : 17.

(a) How many members were in the Science Club last year?

(b) How many more boys must join the club this year so that there will be an equal number of boys and girls in the Science Club this year?

Do not write in this space.

Answer: (a) _____ [3]

(b) _____ [2]

SCORE

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17. The first four figures of a pattern formed using toothpicks are shown below.

Do not write in this space.

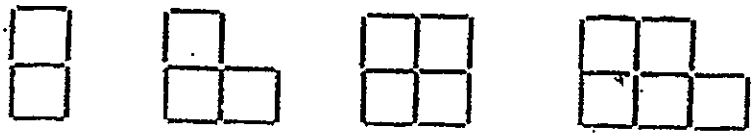

Figure 1 Figure 2 Figure 3 Figure 4

The table below shows the number of toothpicks used for each figure.

(a) Complete the table for Figure 5 and Figure 6. [2]

Figure number	1	2	3	4	5	6
Number of toothpicks used	7	10	12	15	**a(i)** _____	**a(ii)** _____

(b) Which figure would need 102 toothpicks to form?

Answer: (b)_____ [3]

End of Paper 2

SCORE

Q30) **1170÷9=130**

Paper 2

1) 40+35+75=150

150÷3=50

2) 960÷2=480

480×4=1920

1920ml=1.92l

3) **<VRT 90-66=24**

<XRS 90-48=42

<RXS 90-42=48

4) **4×3=12**

12÷2=6

5) **160+520+220+380=1280**

1280÷4=320

6) a) **18/25=72/100**

=72%

b) **1600÷25=64**

64×10=640

7) **2u=244+384+244=872**

1u=436

3u=1308

1308-244=1064

8) 0.45×16=7.2

16p+$7.20=22p

7.20÷6=1.2

1.2×22=26.4

26.4×2=$52.80

9) 35-20 =15

15÷5=3

3+4=7

10) ½×14×25=175

175-66=109

109×2=218

11) a) 3×4=12

b) 252÷ 2=84

84×4=336

336÷12=28

12) 3u=405

1u=135

2u=270

270-6=264

264÷12=22

13) a) 9u:15u

3u-10u

6:5

b) 11u=165

1u=15

13u=195

14) a) 3/5×60×50×30=54000

54litres

b) 60×50×12=36000

54000-36000=18000

18000÷6=3000

3000=3litres

15) 1080÷4=270

270×2=540

540÷15=36

36-15=21

21×21=441

16) a) 3u=45

1u=15

20u=300

b) 17u-6u=11u

15×11=165

17) a)i) 17 ii) 20

b) 102-7=95

95÷5=19

19×2=38

38+1=39

END