Rosyth School
End-of-Year Examination 2022
Mathematics
Primary 4

Name : _____ ( ) Total 100

Class : Pr 4 ~ Duration: 1 h 45 min

Date : 27 October 2022 Parent's Signature: _____

Instructions to Pupils:
1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. This paper consists of 3 parts: Sections A, B and C.
5. For questions 1 to 15 in Section A, shade your answers in the Optical Answer Sheet (OAS).

	Maximum Marks	Marks Obtained
Section A	**30**	
Section B	**42**	
Section C	**28**	
Total	**100**	

* This paper **consists of 22 printed pages** altogether (including the cover page).

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Section A (30 marks)

Questions **1** to **15** carry 2 marks each. For questions 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided.

All diagrams in this paper are not drawn to scale unless stated otherwise.

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1. The value of the digit 2 in 72 415 is _____.

   (1) 20
   (2) 200
   (3) 2000
   (4) 20 000

2. 45 thousands and 6 tens is the same as _____.

   (1) 456
   (2) 4560
   (3) 45 006
   (4) 45 060

3. Which of the following is a factor of both 18 and 42?

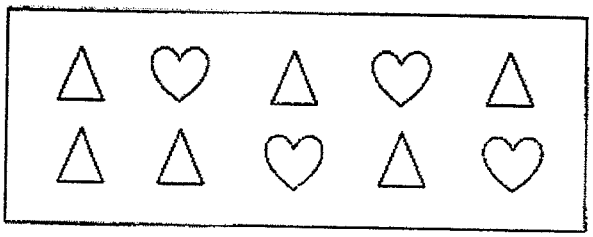
   (1) 6
   (2) 7
   (3) 9
   (4) 4

4. Which of the following is **not** an equivalent fraction of $\frac{1}{6}$?

   (1) $\frac{2}{12}$
   (2) $\frac{3}{15}$
   (3) $\frac{4}{24}$
   (4) $\frac{6}{36}$

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5. What fraction of the shapes in the box are △?



(1) $\frac{6}{10}$

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

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

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

6. The digit 5 in 14.57 stands for 5 _____.

(1) ones

(2) tens

(3) tenths

(4) hundredths

7. $10 - 3.04 = \boxed{?}$. What is the missing number in the box?

(1) 6.6

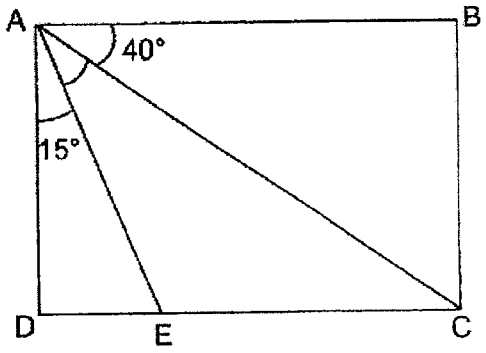
(2) 6.96

(3) 7.6

(4) 7.96

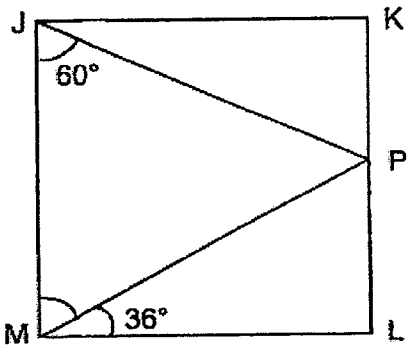
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8. In the figure shown below, ABCD is a rectangle. Find $\angle CAE$.



(1) 30°
(2) 35°
(3) 45°
(4) 60°

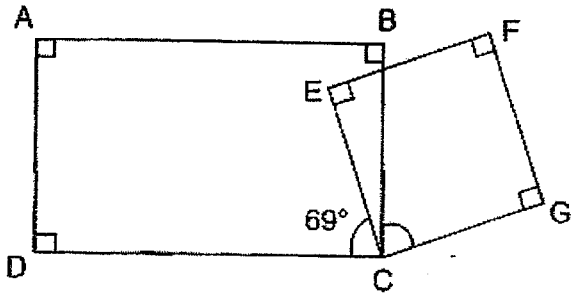
9. JKLM is a square. Find the sum of $\angle KJP$ and $\angle JMP$.



(1) 30°
(2) 54°
(3) 84°
(4) 96°

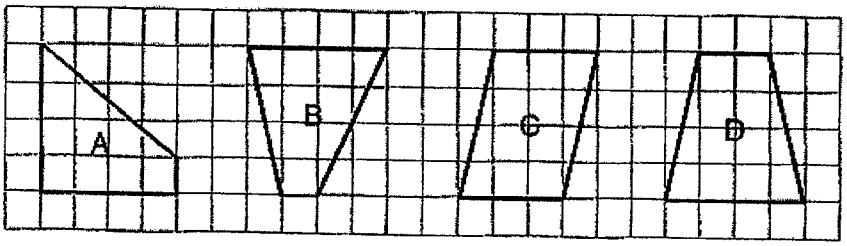
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10. The figure below shows rectangle ABCD and square CEFG overlapping each other. Find ∠BCG.



(1) 21°
(2) 31°
(3) 69°
(4) 71°

11. Which of the following figures is symmetrical?



(1) A
(2) B
(3) C
(4) D

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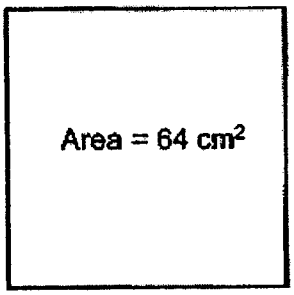
12. The table shows the number of students from P4 Courage who visited the school library from July to October. There are 40 students in the class.

Month	Boys	Girls
July	19	15
August	17	13
September	21	19
October	18	17

How many boys did not visit the library in August?

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

13. The area of a square is 64 cm^2. Find the perimeter of the square.



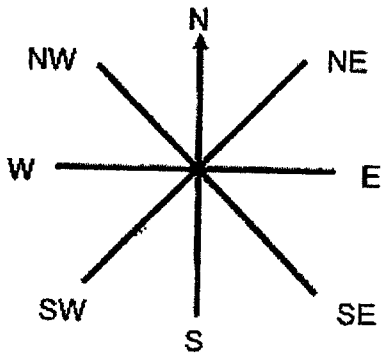
(1) 8 cm
(2) 16 cm
(3) 32 cm
(4) 64 cm

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14. 1 slice of cake cost as much as 3 muffins. John paid $30 for 2 slices of cakes and 4 muffins. How much does 1 slice of cake cost?

(1) $5
(2) $9
(3) $3
(4) $10

15. The figure shows an 8-point compass. After making a 225° turn in the anti-clockwise direction, Amy is facing south-east (SE) now. Which direction was she facing at first?



(1) North
(2) South
(3) East
(4) West

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Section B (42 marks)

Questions **16** to **36** 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.

All diagrams in this paper are not drawn to scale unless stated otherwise.

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16. Write twelve thousand and ninety-nine in figures.

Ans: _____

17. Fill in the blank with the correct number in the number pattern below.

450 , 425 , 400 , _____ , 350

Ans: _____

18. How many one-fifths are there in 1 whole?

Ans: _____

19. What is the missing number in the box?

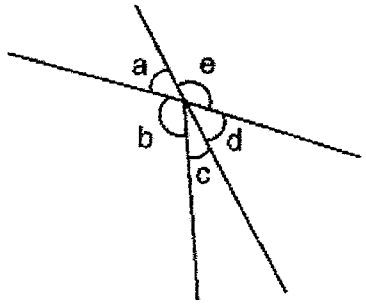
$$\frac{2}{3} = \frac{10}{\boxed{?}}$$

Ans: _____

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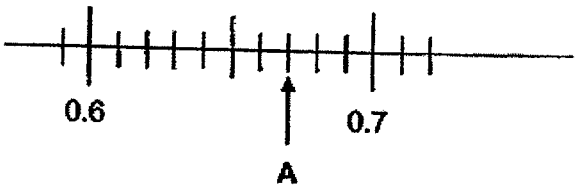
20. In the figure, name the two angles that are greater than 90°.

Do not write in this space



Ans: ∠ _____ and ∠ _____

21. Write the decimal represented by A.



Ans: _____

22. Arrange the following numbers from the smallest to the greatest.

$\frac{3}{5}$, 0.606 , 0.066

Ans: _____, _____, _____
(smallest) *(greatest)*

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23. Express $\frac{7}{100}$ as a decimal.

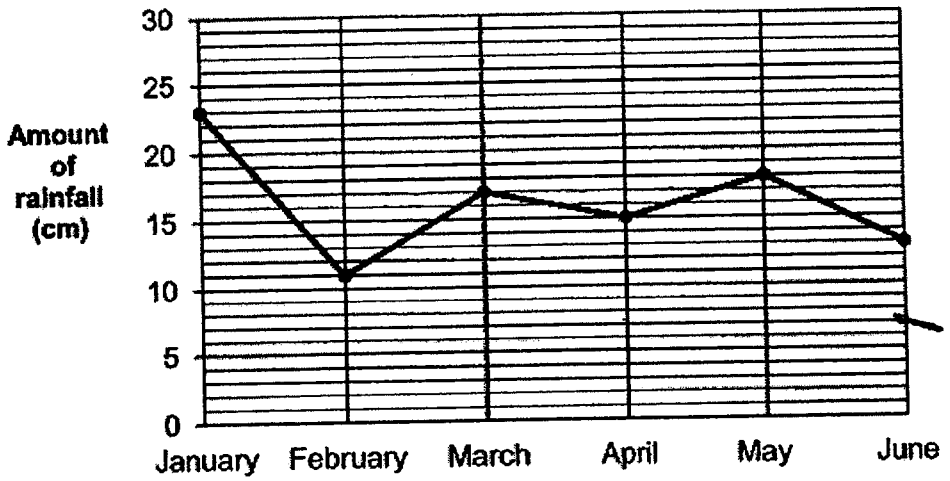
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Ans: _____

24. Round 18.64 to the nearest whole number.

Ans: _____

25. The line graph shows the amount of rainfall recorded at the end of each month from January to June.



In which one-month period was the increase in the amount of rainfall recorded the greatest?

Ans: _____ to _____

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26. Some factors of 81 are 1, 9 and 81. What are the other 2 factors of 81?

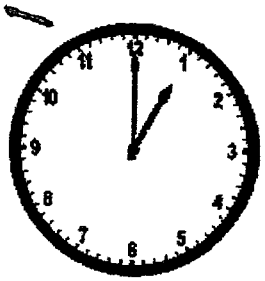
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Ans: _____and _____

27. Pencils are sold in packets of 6 and erasers are sold in packets of 9. Paul wanted to buy the same number of pencils and erasers. What is the least number of packets of erasers Paul needs to buy?

Ans: _____

28. The time on the clock now is 1 p.m. How many right angles does the hour hand need to turn to show 10 p.m.?

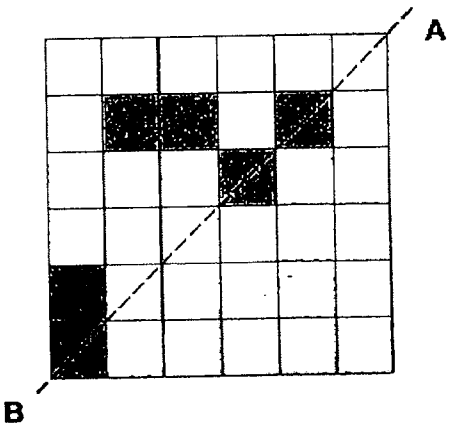


Ans: _____

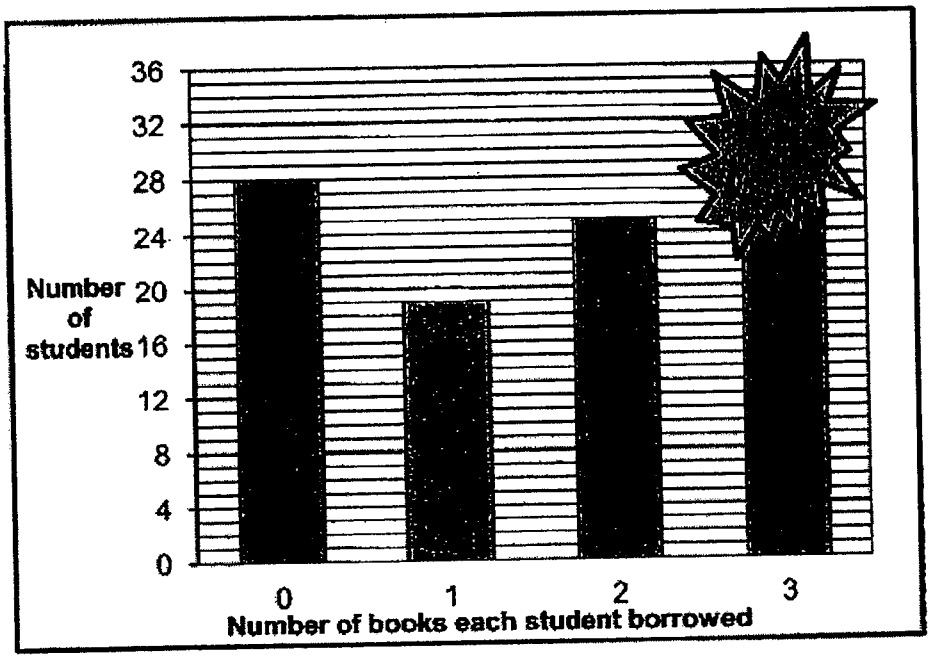
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29. In the figure below, the dotted line AB is the line of symmetry. Shade the **fewest** possible number of squares to make the figure symmetric.

Do not write in this space



30. The bar graph shows the number of books that each student borrowed from the school library. Part of the graph is smudged with ink.



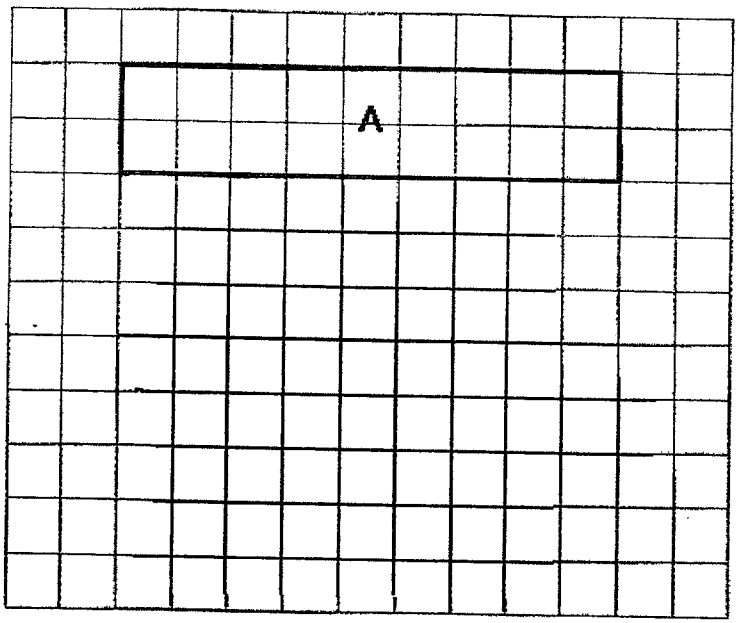
There were 76 students who borrowed at least 1 book. How many of these students borrowed 3 books?

Ans: _____

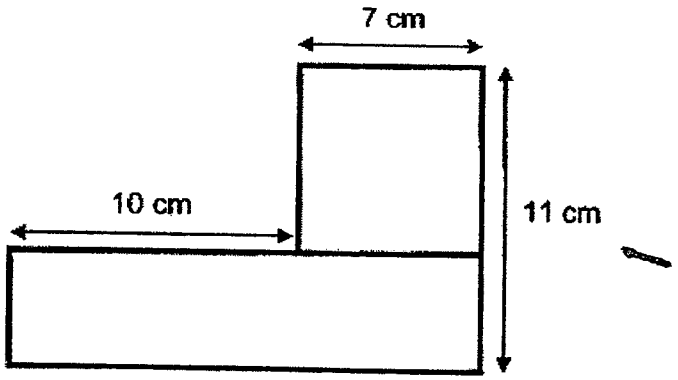
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31. Draw a square that has twice the area of rectangle A on the square grid below such that the square does not overlap Rectangle A. Label the square B.

Do not write in this space



32. The figure below is made up of a square and a rectangle.
Find the area of the figure.

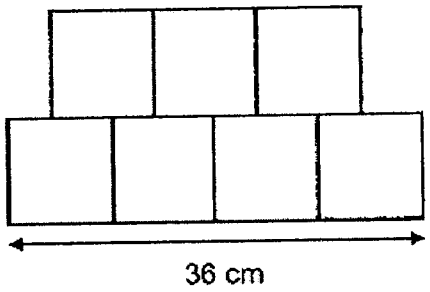


Ans: _____ cm^2

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33. The figure below is made up of 7 identical squares. Find the perimeter of the figure.

Do not write in this space



Ans: _____ cm

34. A string was 10 m long. Sam used 3.16 m of it. He then cut the remaining string equally into 6 pieces. What was the length of each piece of string?

Ans: _____ m

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35. The total mass of a basket containing 7 identical balls was 9.48 kg. When 3 balls were taken out of the basket, the total mass of the basket and the remaining balls became 5.67 kg. What was the mass of 1 ball?

Do not write in this space

Ans: _____ kg

36. The sum of two decimals is 36.56. The greater number is three times as much as the smaller number. Find the greater number.

Ans: _____

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Section C (28 marks)

Questions **37** to **40** carry 3 marks each. Questions **41** to **44** carry 4 marks each. 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.

Do not write in this space

37. Serene visits the library every 3 days. Devi visits the library every 4 days. They first met at the library on 10 March. What is the next date both girls will meet again at the library?

Ans: _____ [3]

38. The mass of a papaya is $\frac{1}{2}$ kg. A watermelon weighs $\frac{1}{6}$ kg more than the papaya. Find the total mass of the papaya and the watermelon.

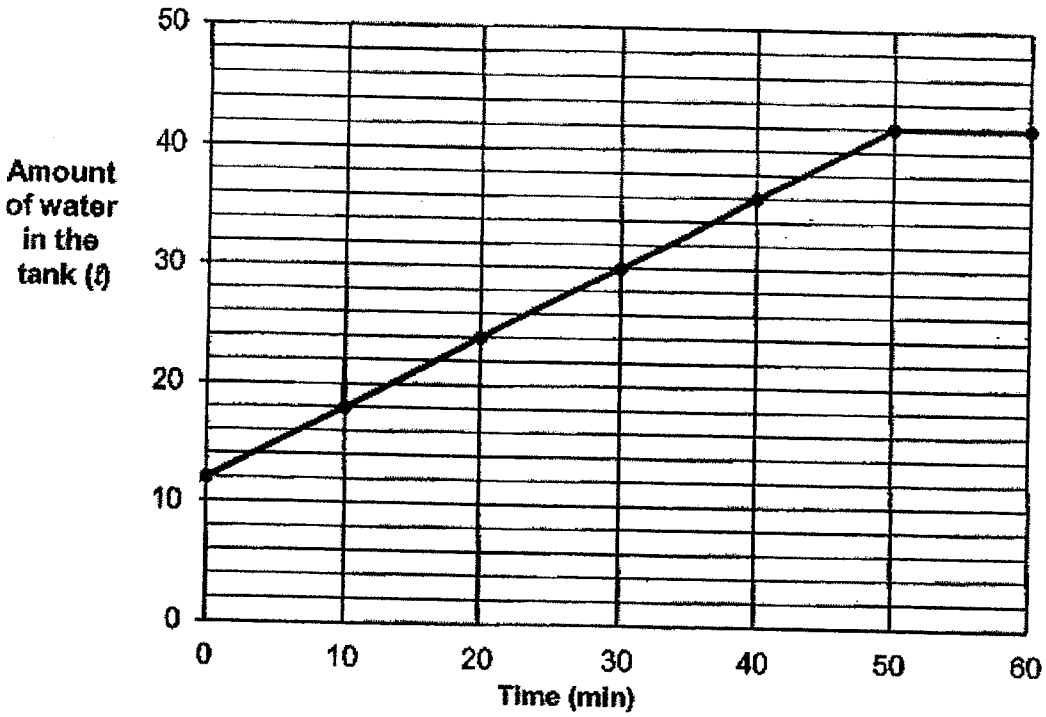
Express your answer as a mixed number in the simplest form.

Ans: _____ [3]

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39. A rectangular tank was partly filled with water. A tap was turned on until the tank was completely filled. The line graph shows the amount of water in the tank over 60 minutes.

Do not write in this space



(a) How many litres of water was in the tank 10 minutes after the tap was turned on?

Ans: _____ [1]

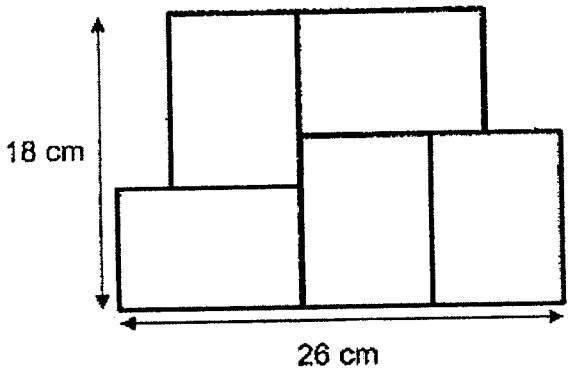
(b) How many litres of water was added to the tank over the 60-minute period?

Ans: _____ [2]

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40. The figure below is made up of 5 identical rectangles.

Do not write in this space



(a) Find the length of 1 rectangle.

Ans: _____ [1]

(b) Find the area of the figure.

Ans: _____ [2]

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41. Three boys sold a total of 745 tickets during a carnival. Abel sold twice as many tickets as Nell. Hamid sold 135 fewer tickets than Abel.

Do not write in this space

(a) How many tickets did Nell sell?

Ans: _____ [3]

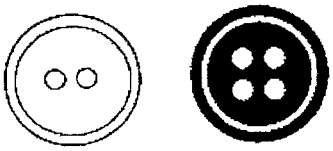
(b) How many tickets did Abel sell?

Ans: _____ [1]

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42. Kevin has an equal number of black and white buttons. There are 2 holes on each white button and 4 holes on each black button. There is a total of 768 holes on the buttons.

Do not write in this space



(a) How many black buttons are there?

Ans: _____ [2]

(b) To sew a shirt, Kevin needs 3 black buttons for every 2 white buttons used. What is the greatest number of shirts he can sew with the buttons he has?

Ans: _____ [2]

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43. A jug was completely filled with water at first. Siti drank $\frac{3}{5}$ of the water and spilled $\frac{1}{10}$ of it. Then she had 480 $m\ell$ left.

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(a) What fraction of the water was left in the jug?

Ans: _____ [2]

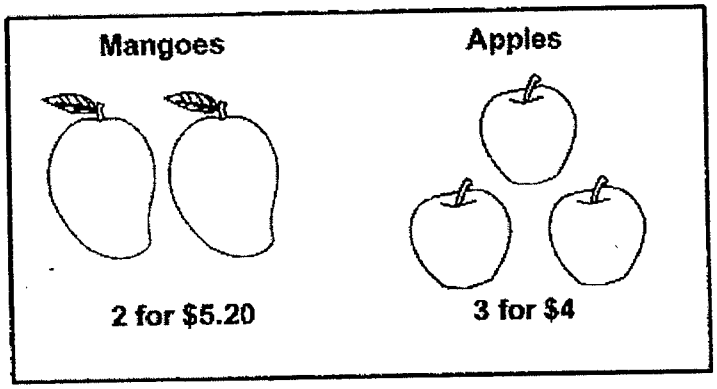
(b) How much water was in the jug at first?

Ans: _____ [2]

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44. Mrs Ong bought some fruits at a sale. Mangoes are sold in packs of 2 while apples are sold in packs of 3.

Do not write in this space



(a) She bought 10 mangoes. How much did she pay for the mangoes?

Ans: _____ [2]

(b) With the same amount of money that she paid for the mangoes, what is the greatest number of apples she can buy?

Ans: _____ [2]

End of Paper

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LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2022 SA2

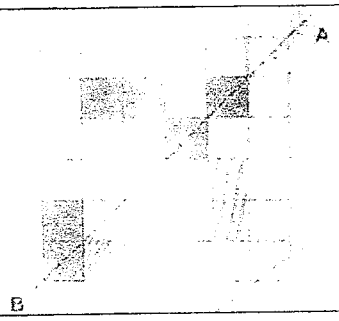
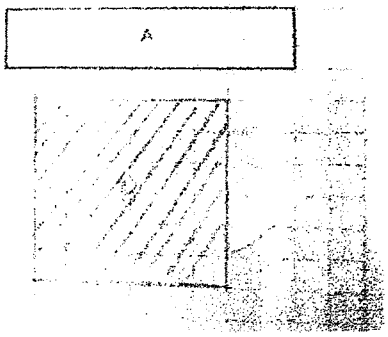
PAPER 1 BOOKLET A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	4	1	2	1	3	2	2	3	3
Q 11	Q12	Q13	Q14	Q15					
4	4	3	2	1					

PAPER 1 BOOKLET B

Q16)	12099
Q17)	375
Q18)	5
Q19)	15
Q20)	$< b$ *and* $< e$
Q21)	0.67
Q22)	0.066 , $\frac{3}{5}$, 0.606
Q23)	0.07
Q24)	19
Q25)	February to March
Q26)	3 and 27
Q27)	2
Q28)	3

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Q29)	
Q30)	$19 + 25 = 44$ $76 - 44 = 32$
Q31)	
Q32)	$68 + 49 = 117cm^2$
Q33)	$18 + 36 = 54$ $54 \times 2 = 108cm$
Q34)	$10 - 3.16 = 6.84$ $6.84 \div 6 = 1.14m$
Q35)	3b ---- $9.48 - 5.67 = 3.81$ b ---- $3.81 \div 3 = 1.27kg$
Q36)	4u ---- 36.56 u ---- $36.56 \div 4 = 9.14$ 3u ---- $9.14 \times 3 = 27.42$
Q37)	22 March
Q38)	$\frac{3}{6} + \frac{1}{6} = \frac{4}{6}$ $\frac{3}{6} + \frac{4}{6} = \frac{7}{6}$ $\frac{7}{6} = 1\frac{1}{6}kg$
Q39)	a) 18L b) $42 - 12 = 30L$
Q40)	a) $B + L = 18$ $L + B + B = 26$ $B = 26 - 18 = 8$ $L = 18 - 8 = 10cm$

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	b) $10 \times 8 = 80$ $80 \times 5 = 400cm^2$
Q41)	a) 176 b) $2u = 176 \times 2 = 352$
Q42)	a) 128 b) 42
Q43)	a) $\frac{10}{10} - \frac{7}{10} = \frac{3}{10}$ b) $3u = 480$ $u = 480 \div 3 = 160$ $10u = 160 \times 10 = 1600ml$
Q44)	a) $2u = 5.20$ $10u = 5.20 \times 5 = \$26$ b) $3u = 4$ $26 \div 4 = 6R2$ $6 \times 3 = 18$

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