HENRY PARK PRIMARY SCHOOL
2022 SEMESTRAL EXAMINATION 2
MATHEMATICS
PRIMARY 4

Name: _____ ( ) Parent's Signature

Class: Primary 4_____ _____

Duration of Paper: 1 h 45 min

Marks:

Section A (MCQ)	20
Section B (Open-Ended)	50
Section C (Problem Sums)	30
Total	100

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SECTION A: Multiple-Choice Questions (20 marks)
Questions 1 to 10 carry 2 mark 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 in the Optical Answer Sheet.

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1. In the number 67 540, which digit is in the tens place?

(1) 7

(2) 6

(3) 5

(4) 4 ( )

2. 28 371 rounded to the nearest hundred is _____ .

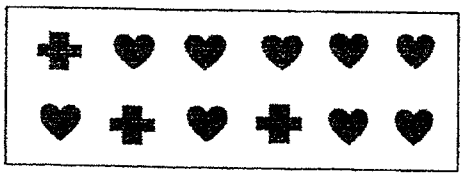
(1) 28 400

(2) 28 370

(3) 28 300

(4) 28 000 ( )

3. What fraction of the shapes in the box are ✚ ?



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

(2) $\frac{3}{12}$

(3) $\frac{9}{12}$

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

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4. Write $4\frac{8}{25}$ as a decimal.

(1) 4.032

(2) 4.08

(3) 4.32

(4) 4.88

( )

5. The digit 5 in 7.654 stands for 5 _____.

(1) ones

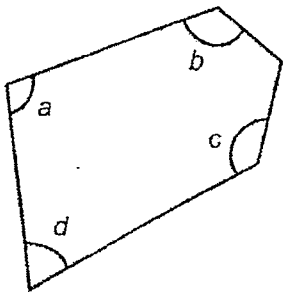
(2) tens

(3) tenths

(4) hundredths

( )

6. In the figure below, which angle is smaller than a right angle?



(1) $\angle a$

(2) $\angle b$

(3) $\angle c$

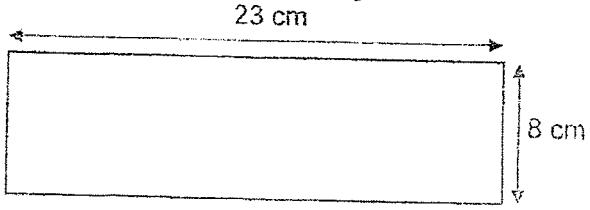
(4) $\angle d$

( )

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7. Find the perimeter of the rectangle shown below.



(1) 184 cm

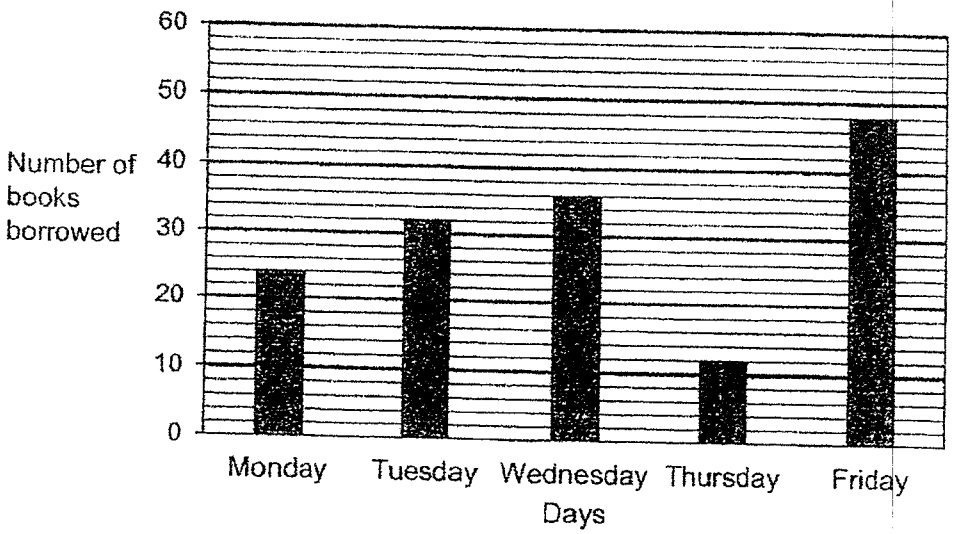
(2) 62 cm

(3) 60 cm

(4) 31 cm

( )

8. The bar graph below shows the number of books borrowed by a group of students from Monday to Friday.



On which day did the students borrow twice as many books as Monday?

(1) Tuesday

(2) Wednesday

(3) Thursday

(4) Friday

( )

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9. Joyce bought $\frac{2}{5}$ m of red ribbon. She also bought a roll of yellow ribbon which was $\frac{3}{4}$ m longer than the red ribbon. How many metres of yellow ribbon did she buy?

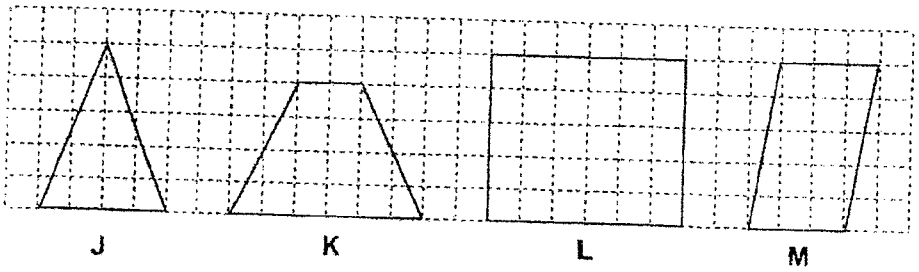
(1) $\frac{5}{9}$ m

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

(3) $1\frac{3}{20}$ m

(4) $1\frac{11}{20}$ m ( )

10. Four different shapes J, K, L and M are shown below.



Which of the following figure(s) are symmetrical?

(1) J and K only

(2) J, K and L only

(3) J, K and M only

(4) J, K, L and M ( )

(Go on to SECTION B)

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SECTION B: Open-Ended Questions (50 marks)

Questions 11 to 35 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.

Do not write in this space

11. What is the remainder when 8022 is divided by 8?

Ans: _____

12. 3180 × 7 = _____

Ans: _____

13. Three factors of 16 is 1, 4 and 16. What are the other two factors of 16?

Ans: _____ and _____

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14. Express $\frac{10}{12}$ in its simplest form.

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Ans: _____

15. Write $2\frac{3}{4}$ as an improper fraction.

Ans: _____

16. What is the value of $\frac{3}{5} + \frac{3}{7}$? Express your answer as a mixed number.

Ans: _____

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17. Arrange the following numbers in order from the greatest to the smallest.

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0.102 , 0.021 , 0.201

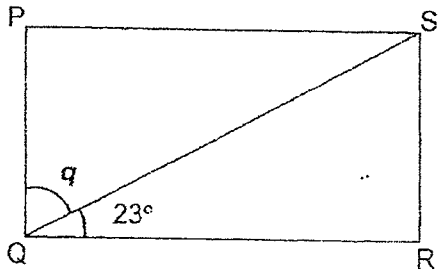
Ans: _____ (greatest), _____, _____ (smallest)

18. $0.6 = \frac{6}{?}$

What is the missing number in the box?

Ans: _____

19. PQRS is a rectangle. Find $\angle q$.



Ans: _____ °

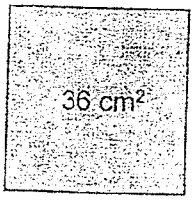
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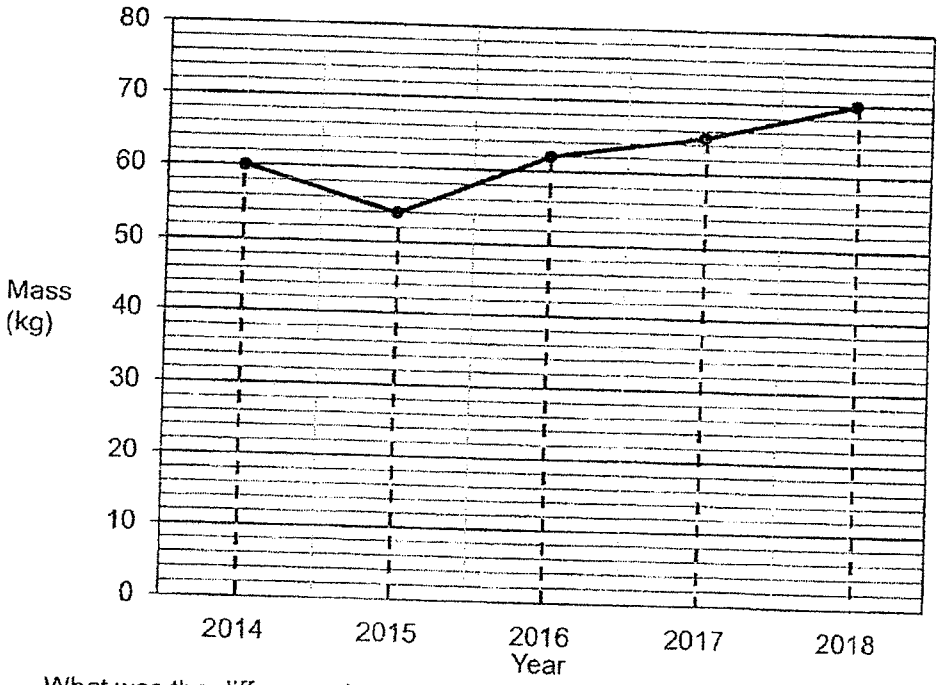
20. The square shown below has an area of 36 cm^2. Find the perimeter of the square.

Do not write in this space



Ans: _____ cm

21. The line graph below shows Aru's mass each year from 2014 to 2018.



What was the difference in Aru's mass between 2015 and 2016?

Ans: _____ kg

(Go on to the next page)

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22. Kelly has 2168 beads. Grace has 840 beads. How many beads must Kelly give to Grace so that they have an equal number of beads?

Do not write in this space

Ans: _____

23. ? hundredths ÷ 2 = 0.14

What is the missing number in the box?

Ans: _____

24. Muthu used 12.6 ℓ of red paint. Kim used 3.8 ℓ of red paint more than Muthu. How much red paint did Muthu and Kim use altogether?

Ans: _____ ℓ

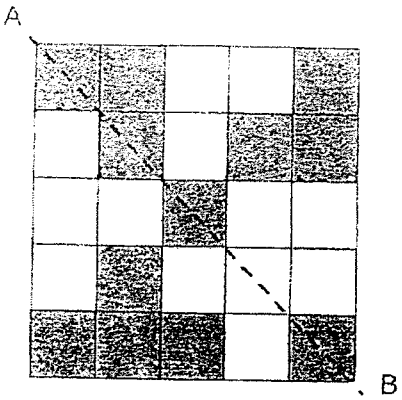
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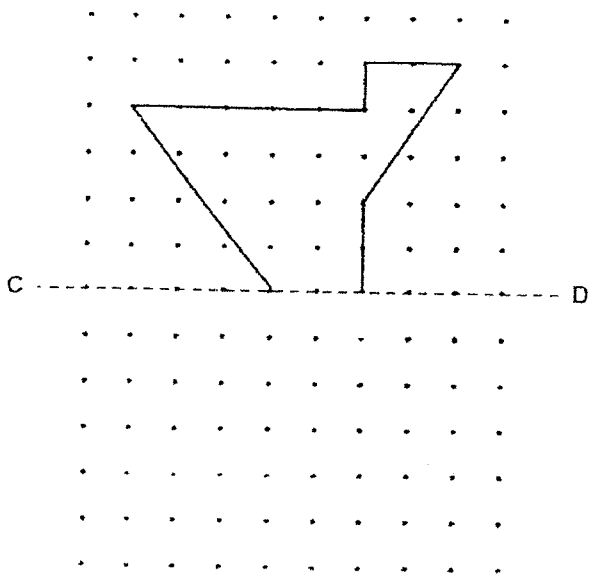
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25. (a) Shade 2 more squares to form a symmetric figure with AB as the line of symmetry. [1]

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(b) Complete the symmetric figure below with CD as the line of symmetry.[1]



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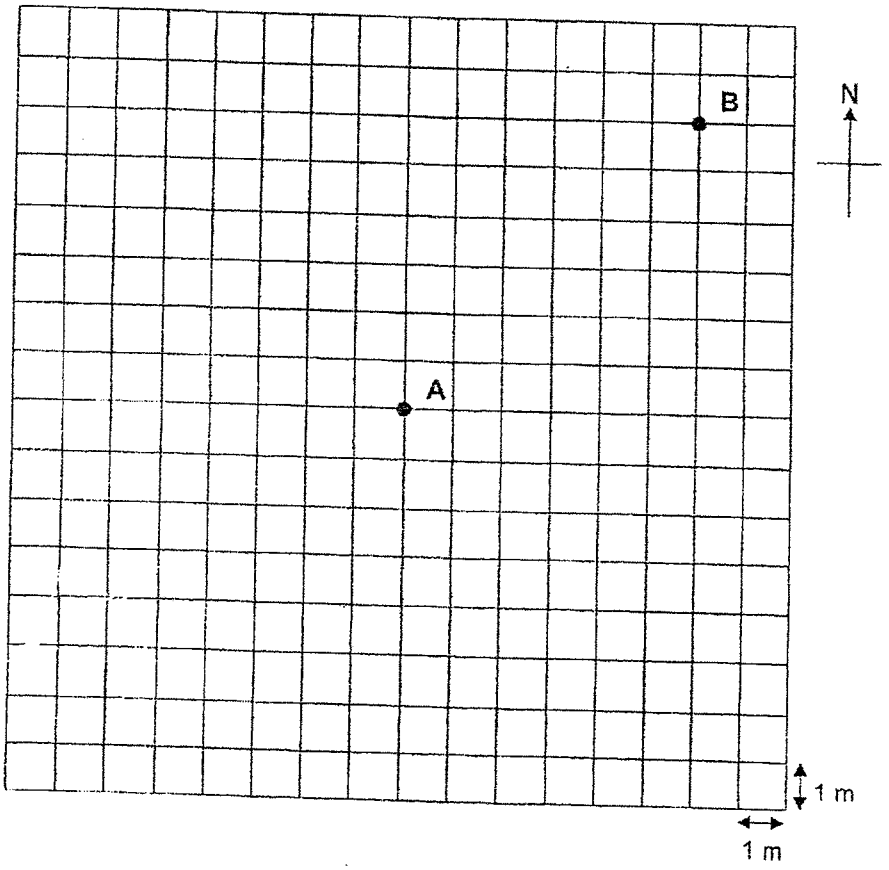
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26. (a) Marcus is standing at point A. He follows the directions given below to go to position X on the grid.

Do not write in this space

(i) Walk 5 metres towards South.
(ii) Turn 90° clockwise.
(iii) Walk straight for 7 metres.

Mark a cross (X) on the grid to show the point where Marcus will be at after following the directions given above. [1]



(b) Valerie walked directly from point B to point A in a straight line. In which direction did Valerie walk? [1]

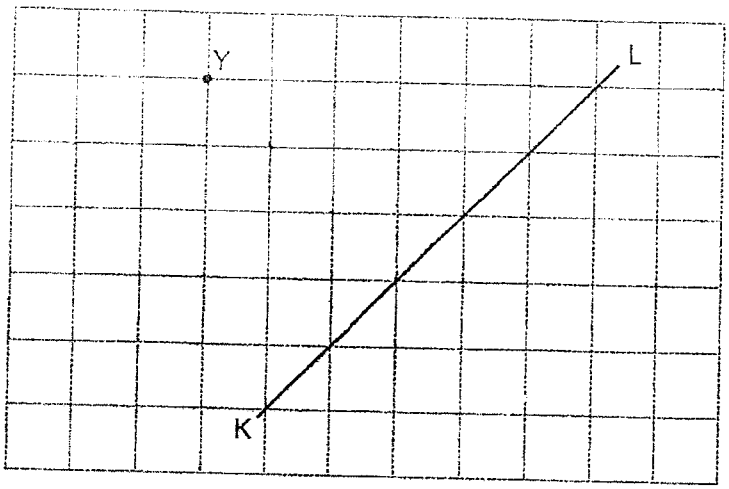
Ans: _____

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27. Draw a line perpendicular to KL passing through point Y on the grid below and label it.



28. Tim and his brother took part in a 10-km run. They started running at 08 45. Tim took 2 h 20 min to complete the run while his brother was faster than him by 30 minutes. What time did Tim's brother complete the run? Give your answer using the 24-hour clock.

Ans: _____

(Go on to the next page)

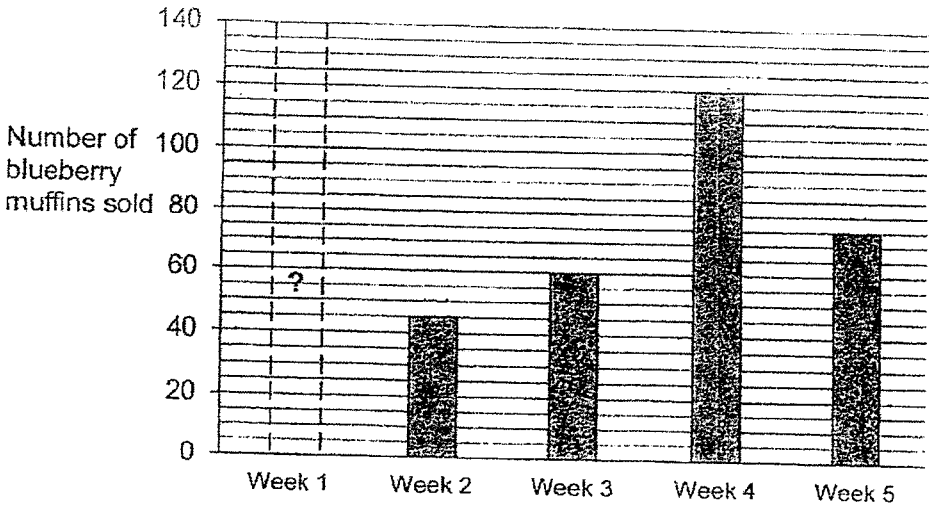
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Use the information below to answer Questions **29** *and* **30**.

29. The bar graph below shows the number of blueberry muffins sold by a stall from over 5 weeks. The bar showing the number of blueberry muffins sold in Week 1 has not been drawn.

Do not write in this space



What was the total number of blueberry muffins sold in Weeks 2 to 4?

Ans: _____

30. The total number of blueberry muffins sold in Week 2 and Week 5 is 4 times the number of muffins sold in Week 1. Find the number of blueberry muffins sold in Week 1.

Ans: _____

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31. 2 similar plates cost as much as 3 similar bowls. George paid $60 for 4 such plates and 4 such bowls. How much must George pay if he buys only 5 bowls instead?

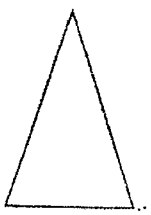
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Ans: $ _____

32. $\frac{4}{6}$ of a number is 280. What is $\frac{1}{3}$ of the same number?

Ans: _____

33. Triangle A has a perimeter of 24.8 cm. Jensen used 2 such triangles and a square to form Figure K. Find the perimeter of Figure K.



Triangle A

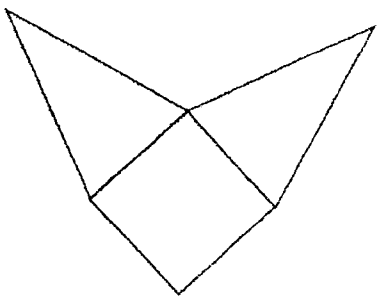


Figure K

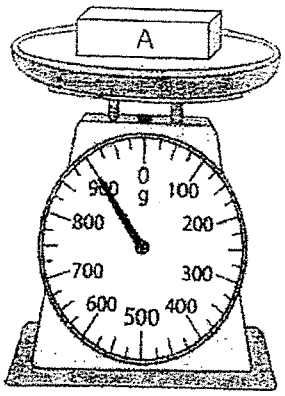
Ans: _____ cm

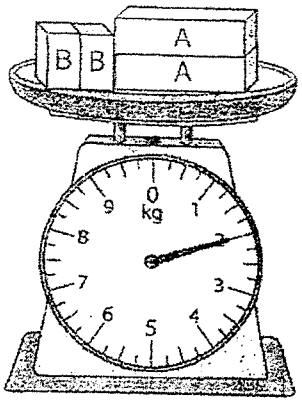
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34. Matt placed different number of blocks A and B on the weighing scales as shown below. Find the mass of block B. Express your answer as a decimal.

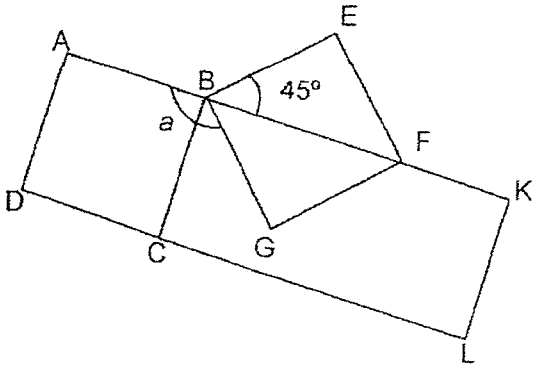
Do not write in this space





Ans: _____ kg

35. In the figure, ABCD and BEFG are squares and BKLC is a rectangle. AK and DL are straight lines. Find $\angle a$.



Ans: _____ °

(Go on to SECTION C)

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NAME: _____ CLASS: Primary 4 _____

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SECTION C: Problem Sums (30 marks)

For questions **36** to **43**, show your working clearly 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.

36. Ahmad sold an equal number of apples and peaches. Each apple cost $2 while each peach cost $5. He collected a total of $756 from the sale of the fruits.

(a) How many peaches were sold?

Ans: (a) _____ [2]

(b) How much money was collected from the sales of apples?

Ans: (b) _____ [2]

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37. The total age of Ben and his mother is 36 years old now. In 8 years' time, Ben's mother will be three times the age of Ben. What is Ben's age now?

Do not write in this space

Ans: _____ [4]

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38. The table below shows the entrance fees for the Colourful Flower Exhibition.

	Weekday	Weekend
Adult	$13.90	$15.90
Child (3 to 12 years old)	$6	$8

(a) On Saturday, Mr Chandra and his four-year-old child visited the Colourful Flower Exhibition. How much did Mr Chandra pay for the entrance fees altogether?

Ans: (a) _____ [1]

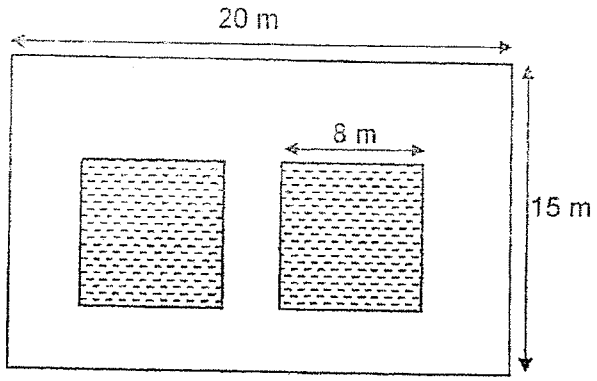
(b) On Wednesday, Ms Sim brought a group of Primary 4 students to visit the Colourful Flower Exhibition. They paid a total of $241.90 to enter the Colourful Flower Exhibition. How many students did Ms Sim bring to the Colourful Flower Exhibition?

Ans: (b) _____ [3]

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39. The figure below shows Marcus's backyard with 2 identical 8-m square ponds.



(a) What is the total area of the two square ponds?

Ans: (a) _____ [2]

(b) What is the remaining area of the empty space around the two ponds in the backyard?

Ans: (b) _____ [2]

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40. Cheryl started cooking dinner at 17 35. She spent 1 h 10 min to cook the dinner. After that, she cleaned up her kitchen before having her dinner at 19 10.

(a) How long did she take to clean up the kitchen?

Ans: (a) _____ [2]

(b) After dinner, Cheryl watched a movie that lasted for 135 minutes. She finished watching the movie at 22 30. What time did she start watching the movie? Give your answer using the 12-hour clock.

Ans: (b) _____ [2]

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41. Mrs Lim had an equal number of coins in each of the 25 glass jars. The next day, she broke 3 of the jars filled with coins. She threw away the broken jars and placed all the coins from the broken jars into the remaining jars equally. As a result, the number of coins in each of the remaining jars increased by 15. What was the total number of coins Mrs Lim had?

Do not write in this space

Ans: _____ [4]

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42. Mary kept some marbles in a box. $\frac{1}{6}$ of the marbles were blue and the rest of the marbles were red. After Mary put another 140 blue marbles into the box, $\frac{1}{2}$ of the marbles in the box were blue. What was the total number of marbles in the box at first?

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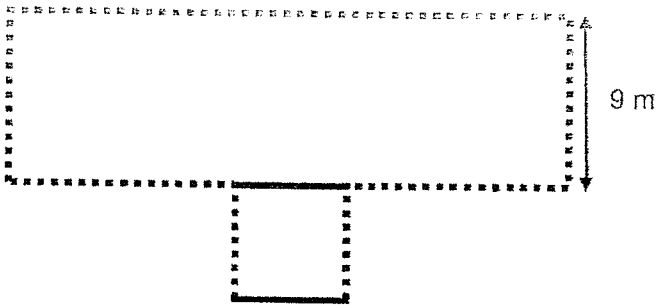
Ans: _____ [3]

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43. Barry has a garden with an area of 216 m^2. It is made up of a rectangle and a square. The area of the rectangle is 5 times the area of the square. Barry wants to build a fence around part of his garden as indicated by ····· in the figure shown. Given that the breadth of the rectangle is 9 m, how many metres of fence does he need?

Do not write in this space



Ans: _____ [3]

Setters: Mr Darren Lau and Ms Sim Ee Mei

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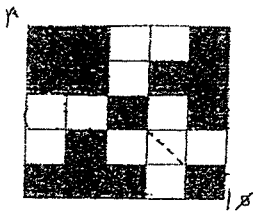
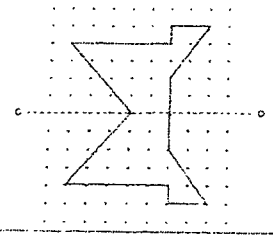
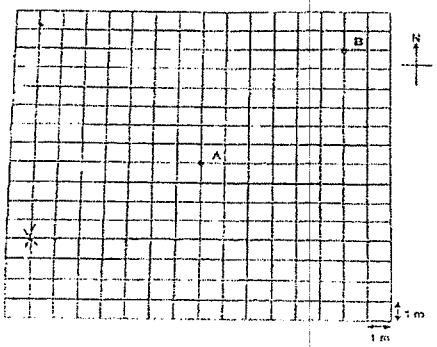
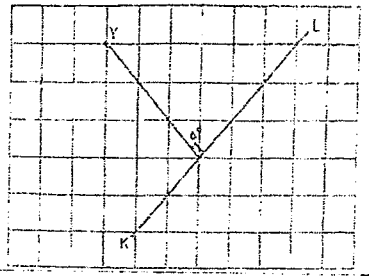
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YEAR : 2022
LEVEL : PRIMARY 4
SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM. : SEMESTRAL ASEESMENT 2

(BOOKLET A)

Q1	4	Q2	1	Q3	2	Q4	3	Q5	4
Q6	4	Q7	2	Q8	4	Q9	3	Q10	2

(BOOKLET B)

Q11	6	Q12	22260
Q13	2 and 8	Q14	$\frac{5}{6}$
Q15	$\frac{11}{4}$	Q16	$1\frac{1}{35}$
Q17	0.201, 0.102, 0.021	Q18	10
Q19	67°	Q20	6 x 4 = 24cm
Q21	62 – 54 = 8kg	Q22	2168 – 840 = 1328 1328 ÷ 2 = 664
Q23	28	Q24	12.6 + 3.8 = 16.4 16.4 + 12.6 = 29
Q25	a)  b) 	Q26	a)  b) South – West
Q27		Q28	08 45 + 2h = 10 35

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Q29	120 + 60 + 45 = 225	Q30	45 + 75 = 120 120 ÷ 4 = 30
Q31	6B + 4B = 10B 10B = 60 513 : 6 ÷ 2 = $30	Q32	4u : 280 1u : 280 ÷ 4 = 70 2u = 70 x 2 = 140
Q33	24.8 + 24.8 = 49.6cm	Q34	900 x 2 = 1800 2000 – 1800 = 200 200 ÷ 2 = 100 100g = 0.1kg
Q35	90 – 45 = 45 90 + 45 = 135°	Q36	a) 5 + 2 = 7 756 ÷ 7 = 108 b) 108 x 2 = $216
Q37	4u = 36 + 8 + 8 = 52 1u = 52 ÷ 4 = 13 13 – 8 = 5 years	Q38	a) 15.90 + 8 = $23.90 b) 241.90 – 13.90 = 228.00 228 = 38 x 6 Ans: 38
Q39	a) 8 x 8 = 64 64 x 2 = 128m^2 b) 15 x 20 = 300 300 – 128 = 172m^2	Q40	a) 15 + 10 = 25min b) 10 15 + 15min = 20 30 20 30 + 2h = 22 30 22 30 = 10 30p.m.
Q41	25 – 3 = 22 22 x 15 = 330 330 ÷ 3 = 110 110 x 25 = 2750	Q42	4u : 140 1u = 140 ÷ 4 = 210
Q43	6u = 216 ÷ 6 = 36 36 = $\frac{6}{L} \times \frac{6}{L}$ Area of React. : 216 ÷ 36 = 180 Length of Rect. : 180 ÷ 9 = 20 20 + 20 + 9 + 9 + 6 = 64		

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