



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

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.

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

- (1) 7
- (2) 6
- (3) 5
- (4) 4

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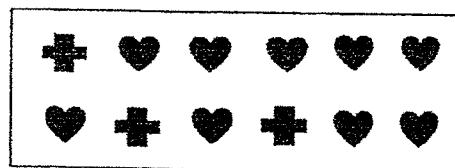
- 2.** 28 371 rounded to the nearest hundred is _____.

- (1) 28 400
- (2) 28 370
- (3) 28 300
- (4) 28 000

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- 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

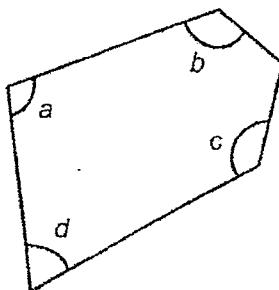
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5. The digit 5 in 7.654 stands for 5 _____.

- (1) ones
- (2) tens
- (3) tenths
- (4) hundredths

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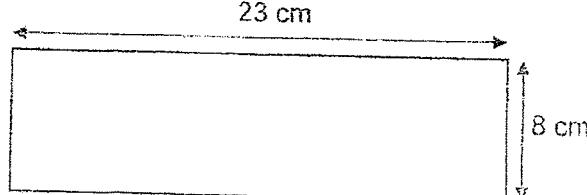
6. In the figure below, which angle is smaller than a right angle?



- (1) $\angle a$
- (2) $\angle b$
- (3) $\angle c$
- (4) $\angle d$

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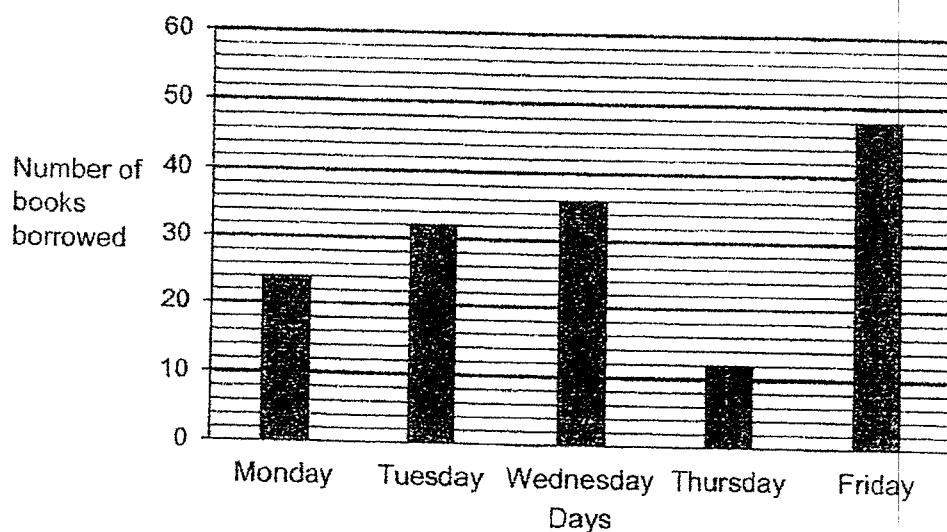
7. Find the perimeter of the rectangle shown below.



- (1) 184 cm
- (2) 62 cm
- (3) 60 cm
- (4) 31 cm

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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

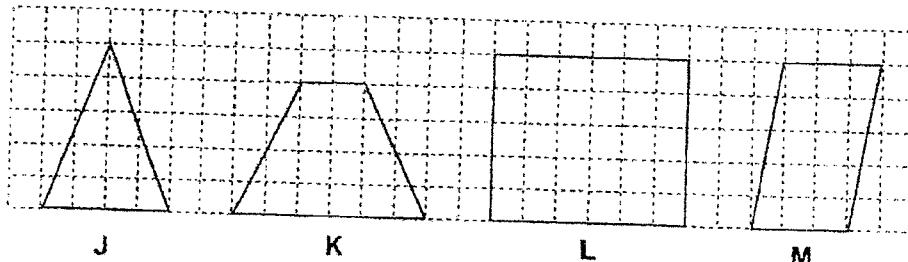
(2) $\frac{7}{20}$ m

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

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

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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

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(Go on to SECTION B)

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.

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

Ans: _____

12. $3180 \times 7 =$ _____

Ans: _____

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

Ans: _____ and _____

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: _____

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

0.102 , 0.021 , 0.201

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Ans:

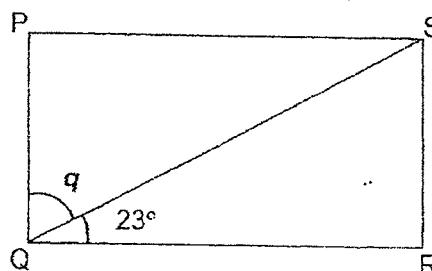
_____ , _____
(greatest) (smallest)

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

What is the missing number in the box?

Ans:

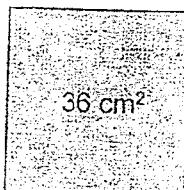
19. PQRS is a rectangle. Find $\angle q$.



Ans:

_____ °

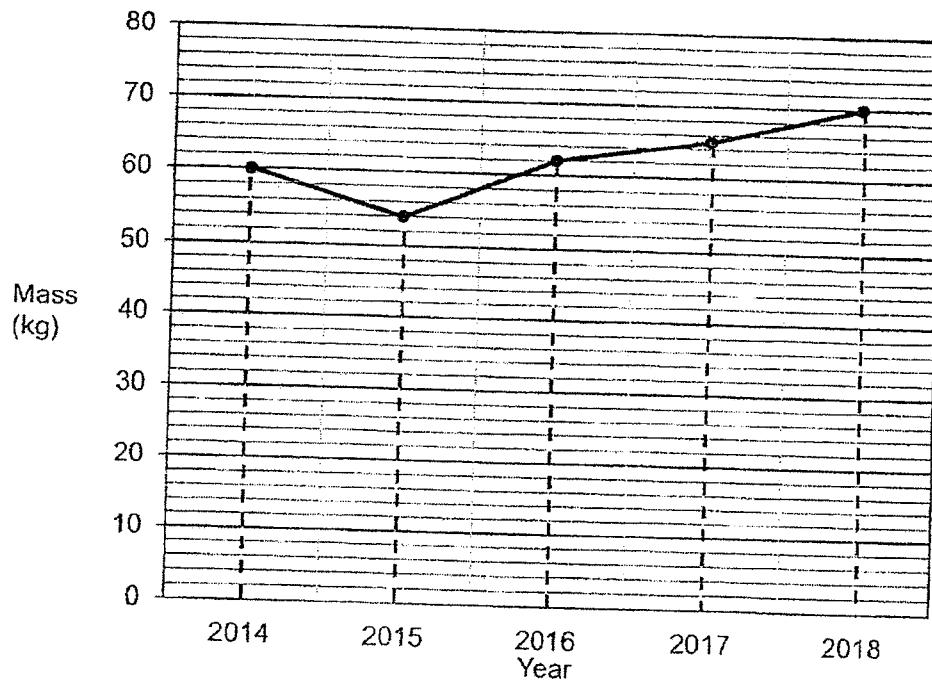
20. The square shown below has an area of 36 cm^2 . Find the perimeter of the square.



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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

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?

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Ans: _____

23. hundredths $\div 2 = 0.14$

What is the missing number in the box?

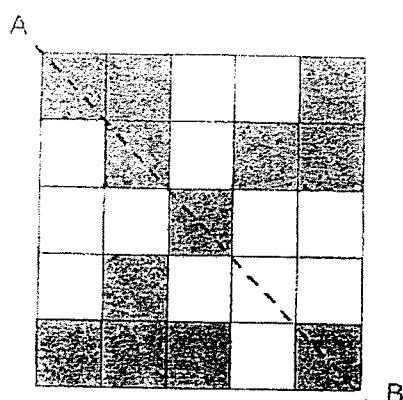
Ans: _____

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?

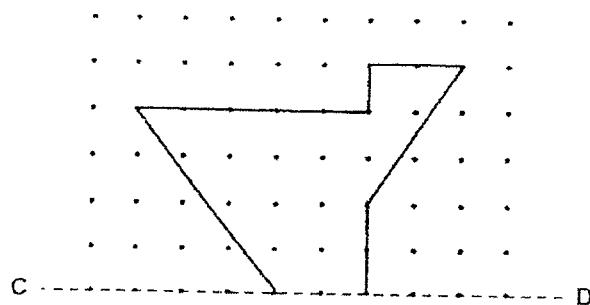
Ans: _____ ℓ

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]



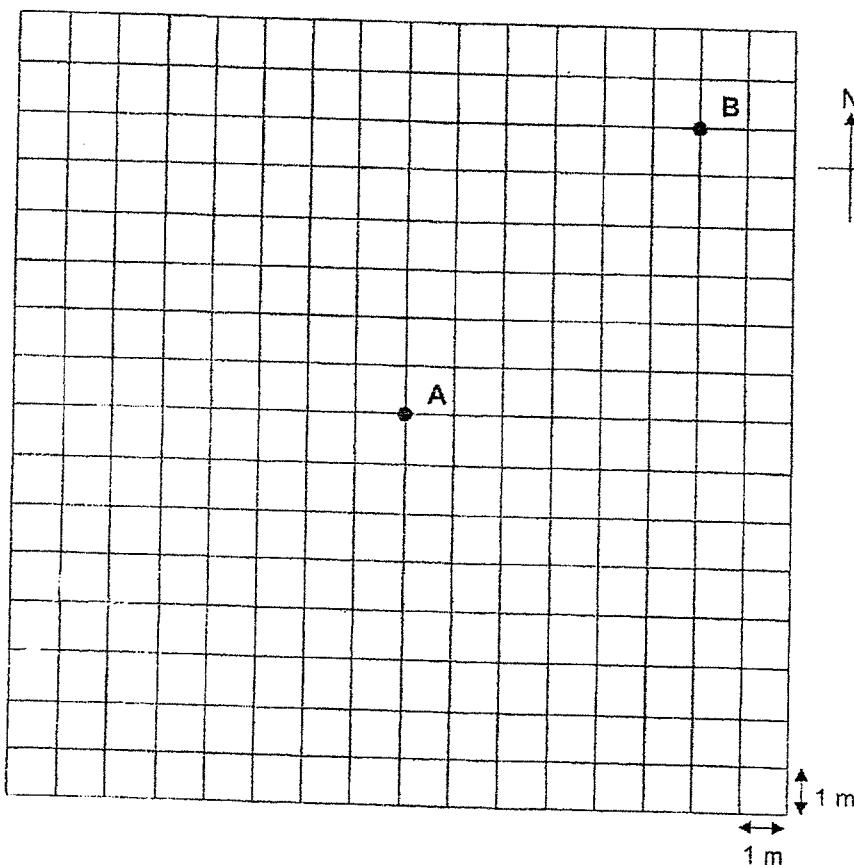
26. (a) Marcus is standing at point A. He follows the directions given below to go to position X on the grid.

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

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

[1]

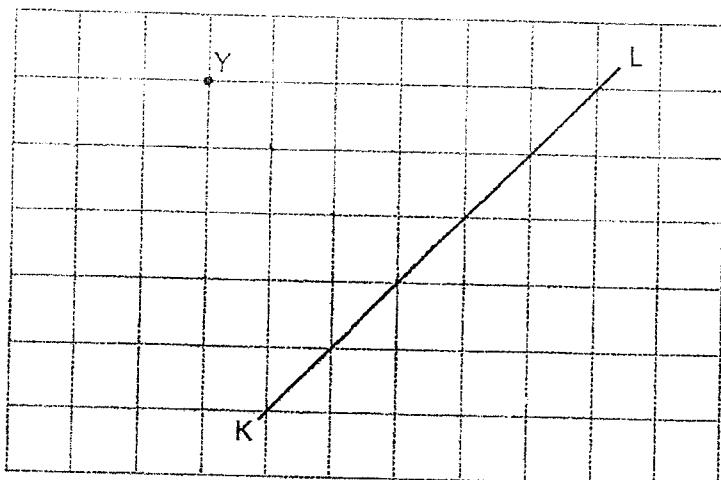


- (b) Valerie walked directly from point B to point A in a straight line. In which direction did Valerie walk?

[1]

Ans: _____

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



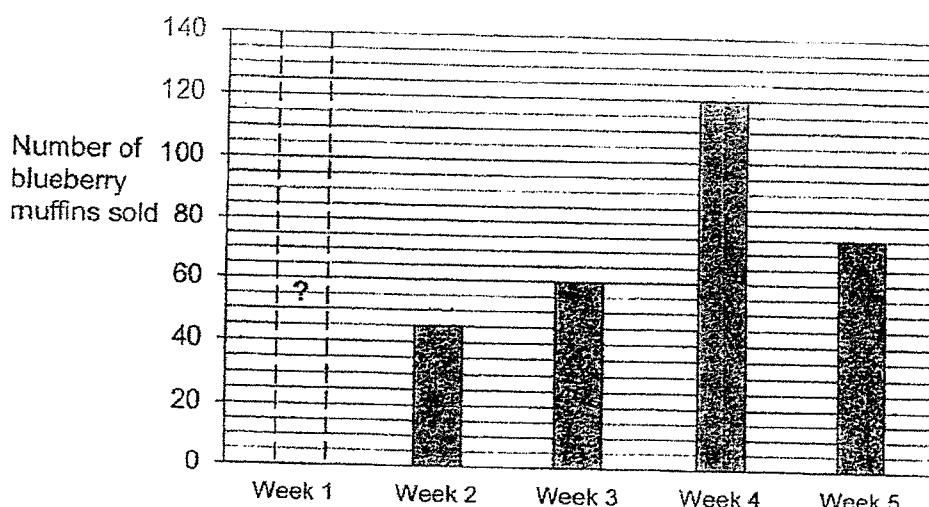
28. Tim and his brother took part in a 10-km run. They started running at 08 45. Tim took 2 h 20 min to complete the run while his brother was faster than him by 30 minutes. What time did Tim's brother complete the run? Give your answer using the 24-hour clock.

Ans: _____

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.

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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: _____

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?

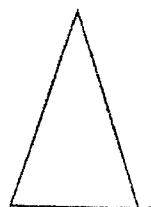
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Ans: \$ _____

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

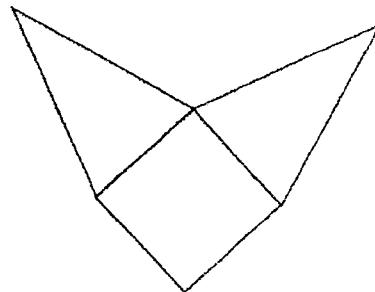
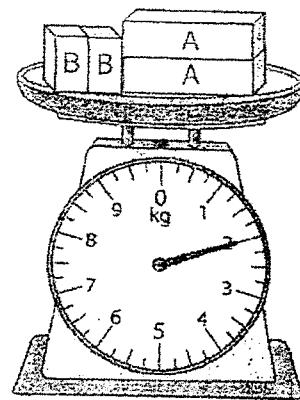
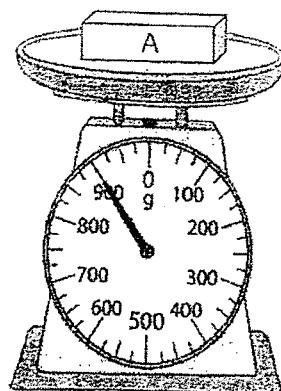


Figure K

Ans: _____ cm

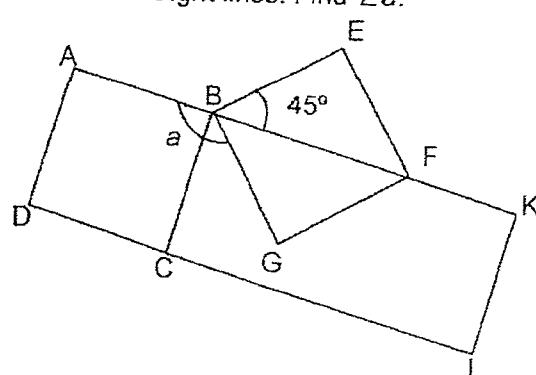
34. Matt placed different number of blocks A and B on the weighing scales as shown below. Find the mass of block B. Express your answer as a decimal.

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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: _____ °

NAME: _____ CLASS: Primary 4 _____

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in this space**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]

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]

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

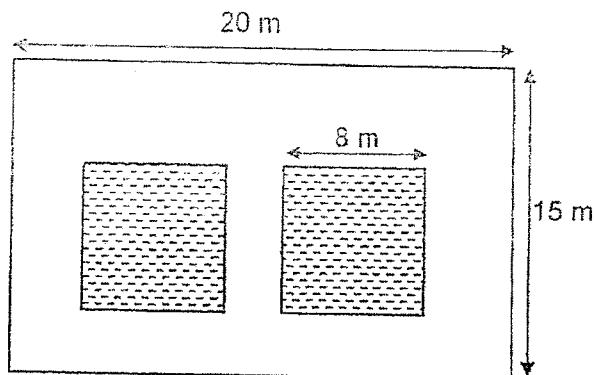
- (a) On Saturday, Mr Chandra and his four-year-old child visited the Colourful Flower Exhibition. How much did Mr Chandra pay for the entrance fees altogether?

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]

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]

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.

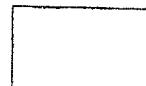
Ans: (b) _____ [2]

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]



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?

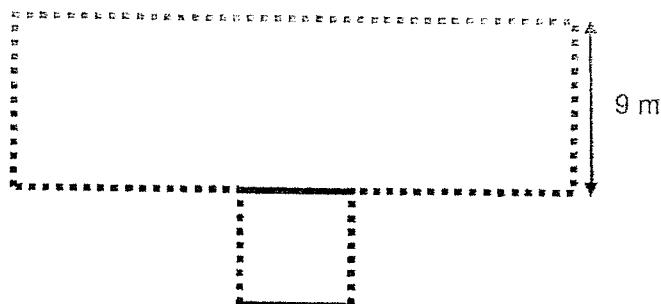
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Ans: _____ [3]



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?

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Ans: _____ [3]

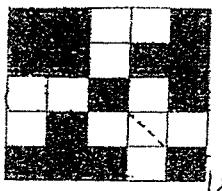
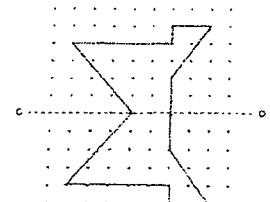
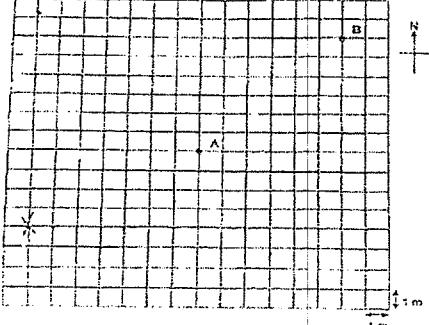
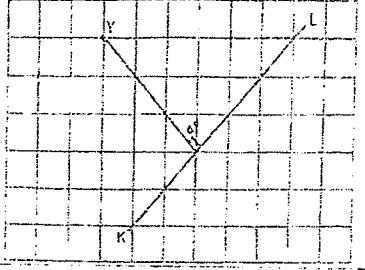
Setters: Mr Darren Lau and Ms Sim Ee Mei

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	$6 \times 4 = 24\text{cm}$
Q21	$62 - 54 = 8\text{kg}$	Q22	$2168 - 840 = 1328$ $1328 \div 2 = 664$
Q23	28	Q24	$12.6 + 3.8 = 16.4$ $16.4 + 12.6 = 29$
Q25	a)  b) 	Q26	a)  b) South – West
Q27		Q28	$08:45 + 2\text{h} = 10:35$

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