AI TONG SCHOOL

2020
END-OF-YEAR EXAMINATION
PRIMARY 4

MATHEMATICS

DURATION : 1 h 45 min

DATE : 3 NOVEMBER 2020

INSTRUCTIONS
Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.

Name : _____ ( )

Class : Primary 4 _____

Parent's Signature	: _____
Date	: _____

Marks :

Section A	/30
Section B	/40
Section C	/30
Total	/100

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Section A

Questions 1 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet **with a 2B pencil**.

(30 marks)

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1 In the number 78 650, which digit is in the thousands place?

(1) 5
(2) 6
(3) 7
(4) 8

2 Complete the following number pattern.

9 , 13 , 17 , _____ , _____ , 29

(1) 18, 19
(2) 18, 28
(3) 21, 22
(4) 21, 25

3 Which of the following numbers when rounded to the nearest ten becomes 46 500?

(1) 46 444
(2) 46 496
(3) 46 506
(4) 46 554

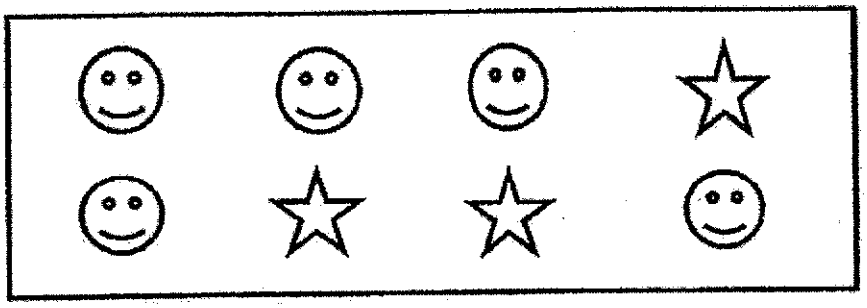
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4 48 is **not** a multiple of _____.

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

5 What fraction of the shapes in the box are ☆ ?

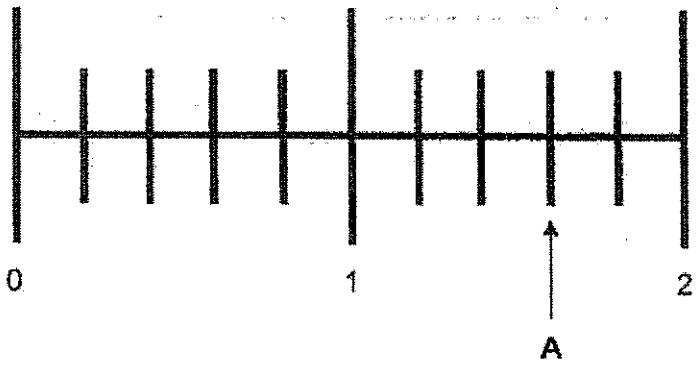


(1) $\frac{3}{5}$
(2) $\frac{3}{8}$
(3) $\frac{5}{8}$
(4) $\frac{5}{3}$

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6 Which of the following mixed numbers is represented by the letter A in the number line shown?



(1) $1\frac{2}{5}$

(2) $1\frac{3}{5}$

(3) $2\frac{2}{5}$

(4) $2\frac{3}{5}$

7 Which of the following is the same as 2 tens and 6 hundredths?

(1) 0.26

(2) 2.06

(3) 20.6

(4) 20.06

8 Which of the following has the smallest value?

(1) 4.3

(2) 4.03

(3) 40.3

(4) 4.003

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9 Which of the following letters **does not** have a line of symmetry?

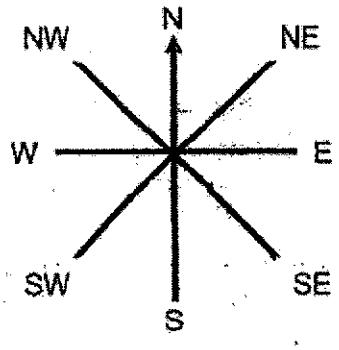
E A S T

(1) E
(2) A
(3) S
(4) T

10 A piece of wire is 27.6 cm long. The whole wire is bent to form a rectangle such that the length is twice the breadth. What is the breadth of the rectangle?

(1) 9.2 cm
(2) 6.9 cm
(3) 4.6 cm
(4) 2.3 cm

11 Allan was facing west. He made a 270° anticlockwise turn.
Which direction was he facing after the turn?



(1) North
(2) South
(3) North-east
(4) South-east

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12 Angie's watch showed 1.15 p.m. when her ballet class ended. The ballet class lasted for 2 h 25 min. What time did her ballet class start?

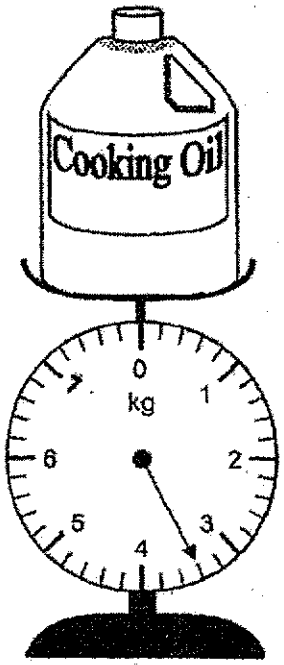
(1) 10.50 a.m.

(2) 11.15 a.m.

(3) 3.15 p.m.

(4) 3.40 p.m.

13 The mass of a bottle of cooking oil is as shown below.
What is the mass of the bottle of cooking oil?



(1) 3 kg 40 g

(2) 3 kg 400 g

(3) 3 kg 20 g

(4) 3 kg 200 g

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14 The table below shows the prices of food items at a fast food restaurant.

Food Item	Small	Medium	Large
Pizza	$5.90	$7.90	$9.90
Drink	$2.20	$2.60	$2.90

Helen bought 1 large pizza and 2 small drinks.
How much did she pay altogether?

(1) $10.30
(2) $12.10
(3) $14.30
(4) $15.70

15 Lenny sold $\frac{3}{7}$ of his cupcakes and had 84 cupcakes left.
How many cupcakes did he sell?

(1) 63
(2) 48
(3) 36
(4) 21

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Section B

Questions **16** to **35** carry 2 marks each. Write your answers in the spaces provided. For questions that require units, give your answers in the units stated. (40 marks)

16 Write forty thousand and twenty-five in figures.

Ans: _____

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

6506 , 6065 , 6650

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

18 Some factors of 32 are 1, 2, 4 and 32. What are the other two factors of 32?

Ans: _____ and _____

6

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19 $0.3 = \frac{3}{\boxed{?}}$

What is the missing number in the box?

Ans: _____

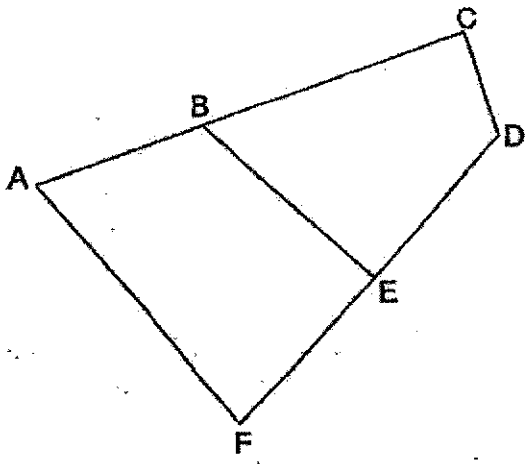
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20 Round 29.54 to the nearest whole number.

Ans: _____

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21 In the figure, one of the lines is perpendicular to FD.
Which line is perpendicular to FD?



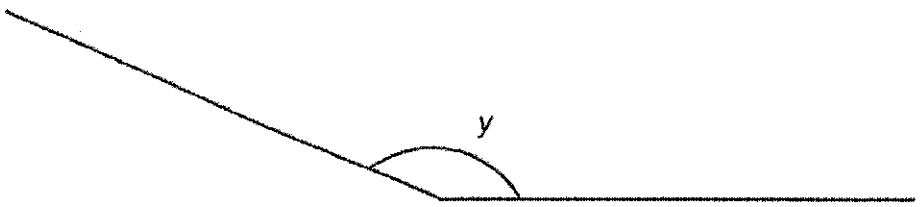
Ans: _____

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22 Measure and write down the size of $\angle y$.



Ans: _____ °

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23 Which two of the fractions below are greater than $\frac{1}{2}$?

$\frac{2}{5}$, $\frac{4}{7}$, $\frac{5}{8}$, $\frac{6}{12}$

Ans: _____ and _____

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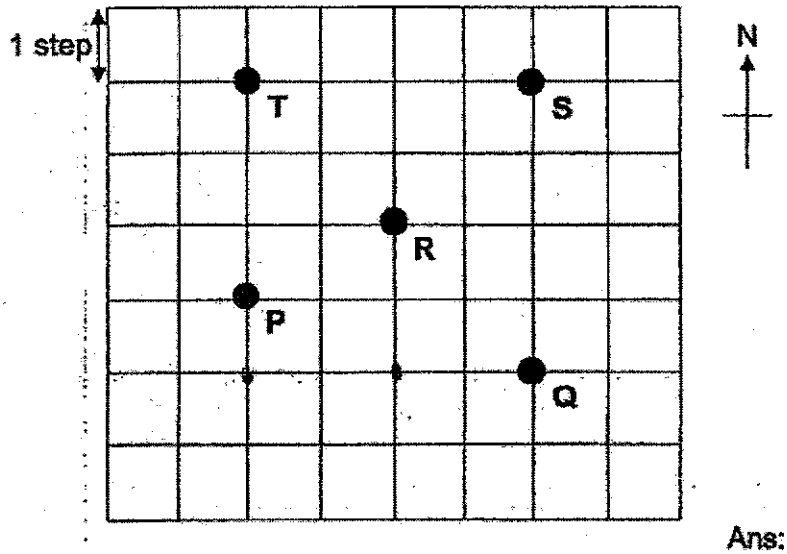
24 What is the value of $\frac{5}{6} + \frac{7}{12}$?
Express your answer as a mixed number.

Ans: _____

25 What is the first common multiple of 4 and 10?

Ans: _____

26 In the square grid below, Tim started at point R and walked 2 steps to the south, 2 steps to the west and then 4 steps to the north. Which point did Tim end up at?



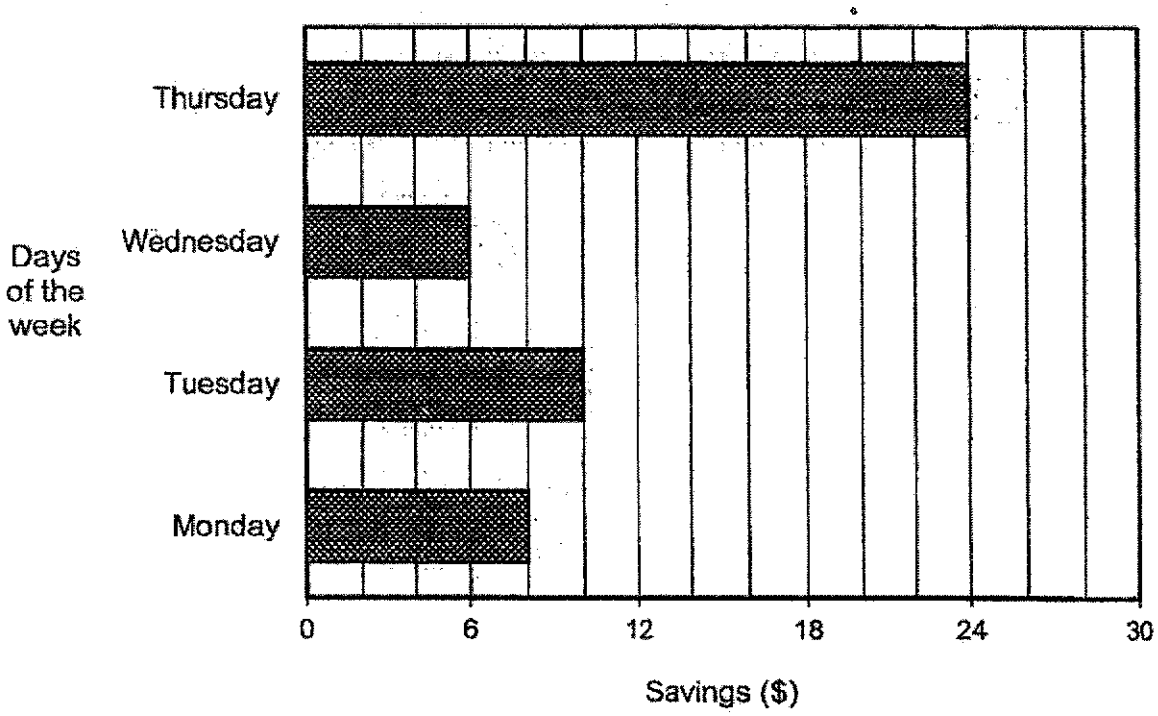
Ans: Point _____

6

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The bar graph below shows the amount of money Richard saved in 4 days.
Study the bar graph carefully and answer questions 27 and 28.



27 How much money did Richard save from Monday to Wednesday?

Ans: $ _____

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28 Richard saved twice as much money on Thursday than on Friday.
How much did he save on Friday?

Ans: $ _____

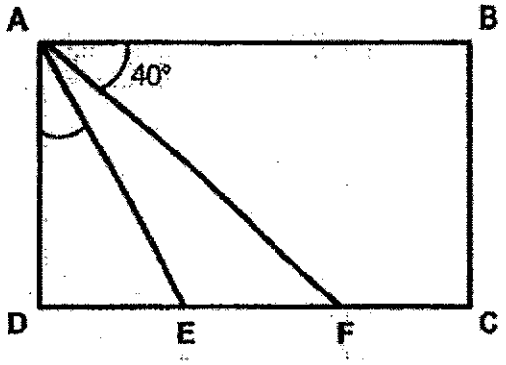
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29 In the figure below, ABCD is a rectangle.

$\angle DAE = \angle EAF$. Find $\angle DAE$.



Ans: _____ °

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30 The following table shows the television programme screened on Sunday morning. Jon watched the full duration of only 'Sesame Street' and 'Galaxy Detectives'. How much time did he spend watching the 2 programmes? Give your answer in hours and minutes.

Time	Programme
8.00 a.m. - 8.40 a.m.	Sesame Street
8.40 a.m. - 9.15 a.m.	Teddies
9.15 a.m. - 10.05 a.m.	Galaxy Detectives

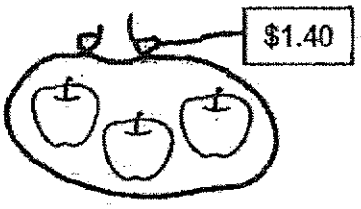
Ans: _____ h _____ min

4

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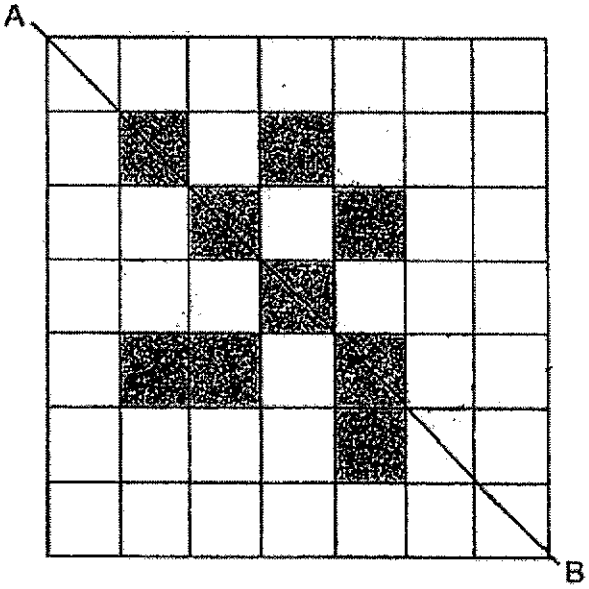
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31 Apples are sold in bags of 3 for $1.40. What is the cost of 9 such apples?



Ans: $ _____

32 The figure below shows 9 identical shaded squares. Shade the smallest number of squares so that the line AB becomes a line of symmetry.



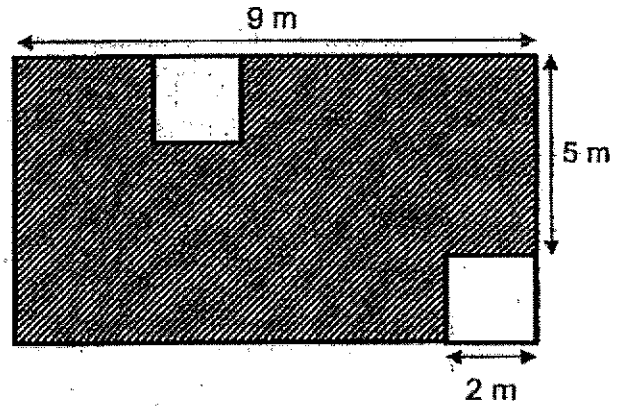
33 Lisa bought some bowls and plates for $42.30. The total cost of a bowl and a plate was $5. Each bowl cost $2.70. She bought one more plate than bowl. How many bowls did she buy?

Ans: _____

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34 The figure below is made up of a rectangle and two identical squares. Find the area of the shaded part.



Ans: _____ m^2

35 Alice baked three times as many cookies as Rachel. Rachel baked twice as many cookies as Zoe. Alice baked 330 cookies. How many cookies did Zoe bake?

Ans: _____

4

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Section C

Questions **36** to **37** carry 3 marks each. Questions **38** to **43** carry 4 marks each. Show your working clearly in the space provided below each question and write your answers and units in the spaces provided. (30 marks)

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36 Janice bought a roll of ribbon. She cut 7 pieces of ribbon to tie some presents. Each piece was 2.25 m long. Then she had 6 m of the ribbon left. How long was the roll of ribbon? Round your answer to the nearest 1 decimal place in metres.

Ans: _____ [3]

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37 Ben had 5.8 ℓ of orange juice. He drank 0.4 ℓ of it and poured the rest equally into 6 bottles. How much orange juice was there in each bottle?

Ans: _____ [3]

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38 Alex had three times as many stamps as Lily at first.
Then, Lily's mother gave her 720 more stamps.
Now, Lily has three times as many stamps as Alex.

(a) How many stamps did Lily have at first?

(b) How many stamps did Alex and Lily have altogether in the end?

Ans: (a) _____ [2]

(b) _____ [2]

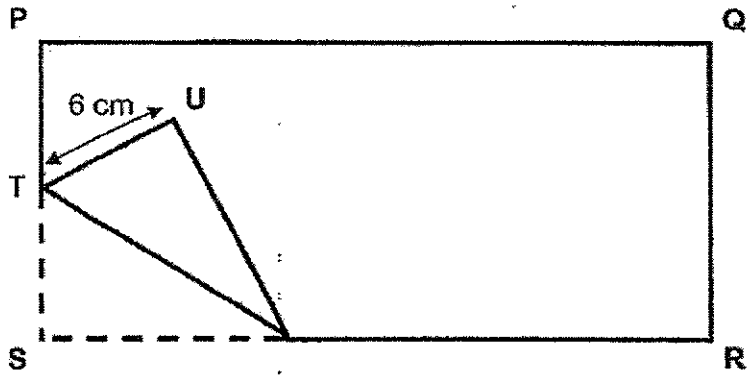
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39 PQRS is a rectangular piece of paper. It has a perimeter of 78 cm. It is folded at a corner as shown below. PT = TS and TU = 6 cm.

(a) What is the breadth of the rectangle?

(b) What is the length of the rectangle?



Ans: (a) _____ [1]

(b) _____ [3]

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40 Wendy read $\frac{3}{8}$ of a book on Monday, $\frac{1}{4}$ of the book on Tuesday and the rest on Wednesday. She read 20 more pages on Monday than on Tuesday.

(a) What fraction of the book did she read on Wednesday?

(b) How many pages are there in the book?

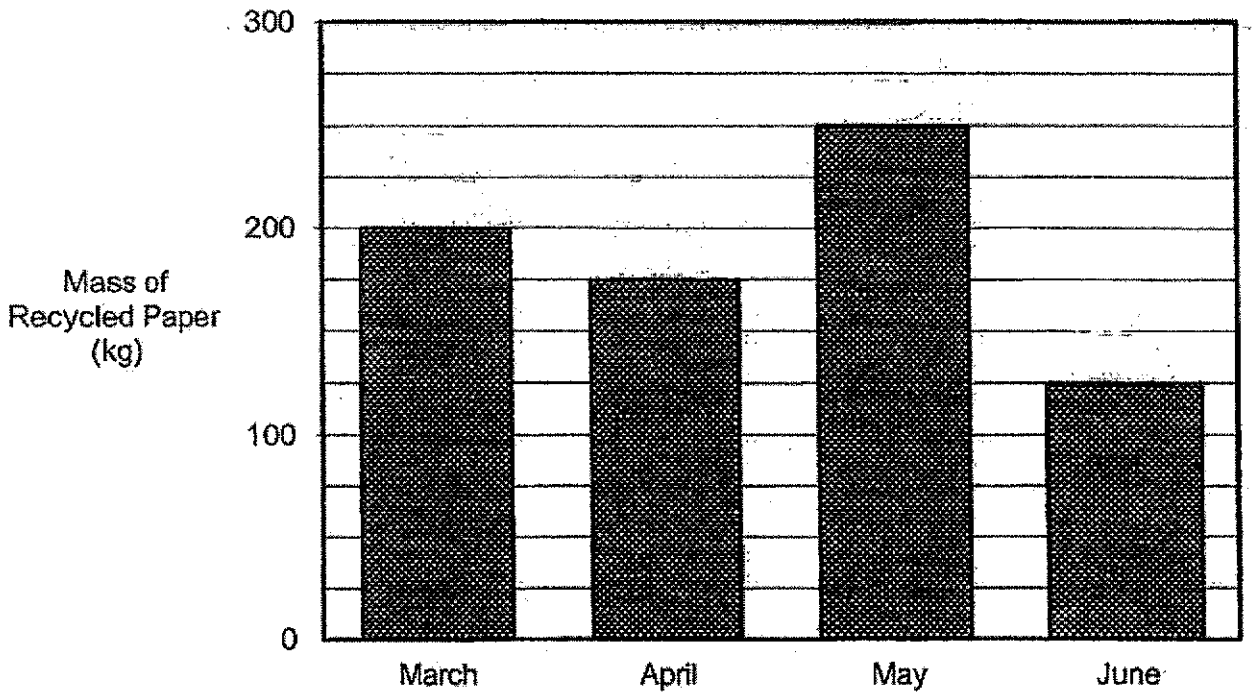
Ans: (a) _____ [2]

(b) _____ [2]

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41 The graph below shows the mass of recycled paper collected by Karen from March to June.



(a) Karen received $3 for every kilogram of recycled paper collected. How much money did Karen receive in April?

(b) Karen collected a total of 600 kg of recycled paper from May to July. What was the mass of recycled paper she collected in July?

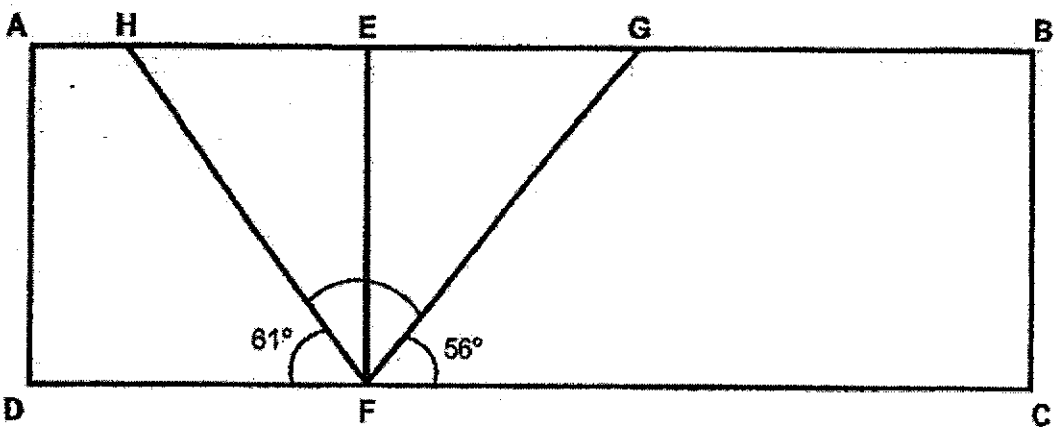
Ans: (a) _____ [2]

(b) _____ [2]

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42 ABCD is a rectangle. EF is perpendicular to DC.
Find ∠ HFG.



Ans: _____ [4]

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43 2412 cards were shared equally among 9 boys. However, 3 of the boys did not like the cards and gave them to the other boys. These cards were shared equally among the rest of the boys. How many more cards did each of the remaining boys receive?

Ans: _____ [4]

End-of-paper
Check your work carefully

4

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ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 4
SCHOOL : AI TONG
SUBJECT : MATHEMATICS
TERM : SA2

SECTION A

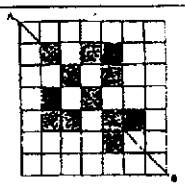
Q1	4	Q2	4	Q3	2	Q4	1	Q5	2
Q6	2	Q7	4	Q8	4	Q9	3	Q10	3
Q11	1	Q12	1	Q13	2	Q14	3	Q15	1

SECTION B

Q16	40025
Q17	6065 , 6506 , 6650
Q18	8 AND 16
Q19	10
Q20	30
Q21	B E
Q22	158 °
Q23	$\frac{5}{8}$ AND $\frac{4}{7}$
Q24	$1\frac{5}{12}$
Q25	20
Q26	T
Q27	24
Q28	12
Q29	90 – 40 = 50 50 ÷ 2 = 25
Q30	50 + 40 = 90 1h 30 min
Q31	$1.40 x 3 = $ 4.20

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Q32	
Q33	5 – 2.70 =2.30 42.30 – 2.30 = 40 40 ÷ 5 = 8 bowls
Q34	9 x 7 = 63 63 – 4 – 4 = 55m2
Q35	330 ÷ 6 = 55

SECTION C

Q36	2.25 X 7 = 15.75 15.75 + 6.00 = 21.75 ~ 21.8
Q37	5.8 – 4 = 5.4 5.4 ÷ 6 = 0.9L
Q38	a) 1u = 720 ÷ 8 = 90 b) 720 + 90 = 810 90 x 3 = 270 810 + 270 = 1080
Q39	a) 6 + 6 =12cm b) 12 + 12 = 24 78 – 24 = 54 54 ÷ 2 = 27 cm
Q40	a) $\frac{3}{8}$ b) 1u = 20 8u = 20 x 8 = 160
Q41	a) 175 x 3 = $525 b) 250 + 125 =375 600 – 375 = 225kg
Q42	61 + 56 = 117 180 – 117 = 63 °
Q43	2412 + 9 = 268 268 x 3 = 804 804 + 6 = 134

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