HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET A)

Name: _____ Parent's Signature

Class: Primary 5 _____ _____

Marks:

Paper 1	Booklet A	20
	Booklet B	20
Paper 2		60
Total		

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.
You are **not** allowed to use a calculator.

Booklet A

Questions **1** to **10** carry 1 mark each. Questions **11** to **15** carry 2 marks each. For each of the questions, four options are given. One of them is the correct answer. Choose the correct answer (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet provided. All diagrams in this paper are not drawn to scale. (20 marks)

1. Which one of the following is six hundred thousand and fifty-five written in numerals?

   (1) 6055
   (2) 60 055
   (3) 600 055
   (4) 6 000 055

2. There were 149 954 visitors to a tourist attraction last year. Express the number to the nearest thousand.

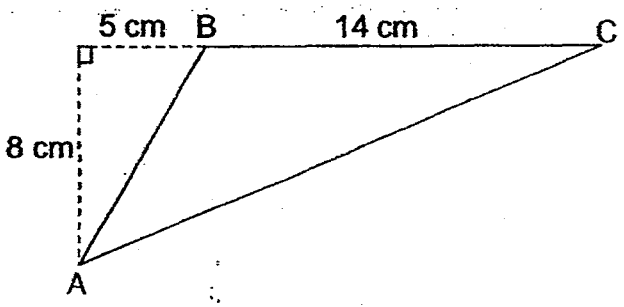
   (1) 149 000
   (2) 149 900
   (3) 150 000
   (4) 150 900

3. Ravi packed 5 kg of rice equally into 8 containers. What is the mass of rice in each container?

   (1) 62.5 g
   (2) 160 g
   (3) 625 g
   (4) 1600 g

(Go on to the next page)

4. Find the area of triangle ABC.



(1) 56 cm^2

(2) 76 cm^2

(3) 112 cm^2

(4) 152 cm^2

5. Express $\frac{5}{4}$ as a decimal.

(1) 0.54

(2) 0.80

(3) 1.14

(4) 1.25

6. Find the value of $36 - 16 \div 4 + 20 \times 2$.

(1) 45

(2) 50

(3) 72

(4) 104

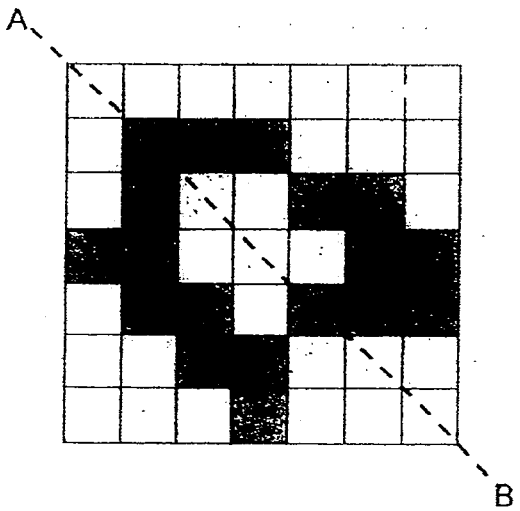
(Go on to the next page)

7. What is the missing number in the box?

$$32.08 = 30 + 2 + \frac{8}{\boxed{?}}$$

(1) 10
(2) 25
(3) 100
(4) 1000

8. What is the least number of squares that must be shaded so that AB is the line of symmetry in the figure below?



(1) 5
(2) 2
(3) 3
(4) 4

(Go on to the next page)

9. The sides of a triangle are in the ratio 3 : 5 : 7. The longest side of the triangle is 28 cm. What is the length of shortest side?

(1) 4 cm
(2) 12 cm
(3) 15 cm
(4) 20 cm

10. Mdm Ong bought 50 eggs. She used 10 eggs to bake a cake. What percentage of the eggs did she use to bake the cake?

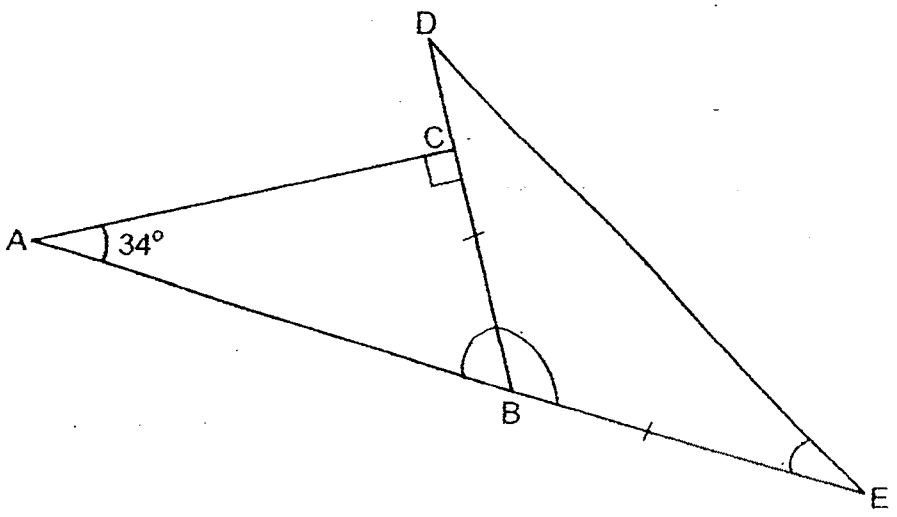
(1) 10%
(2) 20%
(3) 80%
(4) 90%

11. Mrs Goh had 80 m of ribbon. She cut the ribbon into 10 pieces, each measuring 2.25 m. What was the length of ribbon that she had left?

(1) 22.5 m
(2) 57.5 m
(3) 67.75 m
(4) 77.75 m

(Go on to the next page)

12. In the figure below, ABC is a right-angled triangle.
ABE and BCD are straight lines. BD = BE and ∠BAC = 34°.
Find ∠BED.



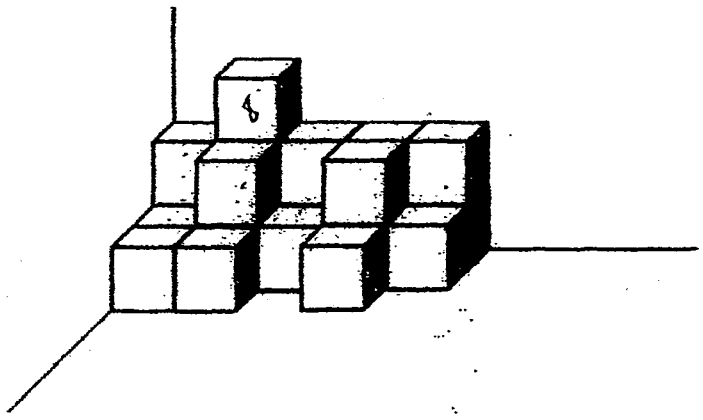
(1) 28°
(2) 34°
(3) 56°
(4) 124°

13. A box contains some red and green markers. There are $\frac{3}{7}$ as many red markers as green markers. What is the ratio of the number of green markers to the total number of markers?

(1) 3 : 7
(2) 4 : 7
(3) 3 : 10
(4) 7 : 10

(Go on to the next page)

14. A solid is formed by stacking 2-cm unit cubes as shown below.
What is the volume of the solid?



(1) 21 cm^3
(2) 42 cm^3
(3) 144 cm^3
(4) 168 cm^3

15. In a class of 45 pupils, $\frac{1}{3}$ of the pupils play soccer and $\frac{1}{5}$ of the pupils play badminton. The rest of the pupils play table-tennis. How many pupils play table-tennis?

(1) 15
(2) 19
(3) 21
(4) 24

(Go on to Booklet B)

HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 1
(BOOKLET B)

Name: _____

Class: Primary 5_____

/ 20

Total Time for Booklets A and B: 50 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Write your answers in this booklet.

You are **not** allowed to use a calculator.

Booklet B

Questions **16** to **25** carry 1 mark each. Write your answers in the spaces provided.

For questions which require units, give your answers in the units stated.

The diagrams in this paper are **not** drawn to scale. (10 marks)

16. Round off 74.452 to the nearest tenth.

Do not write in this space

Ans: _____

17. Find the volume of a cuboid which measures 25 cm by 20 cm by 4 cm.

Ans: _____ cm^3

(Go on to the next page)

18. What is the missing number in the box below?

$$\frac{\boxed{?}}{10} = 1\frac{3}{5}$$

Do not write in this space

Ans: _____

19. Given that $3.25 \times 12.5 = 40.625$, find the value of 325×12.5.

Ans: _____

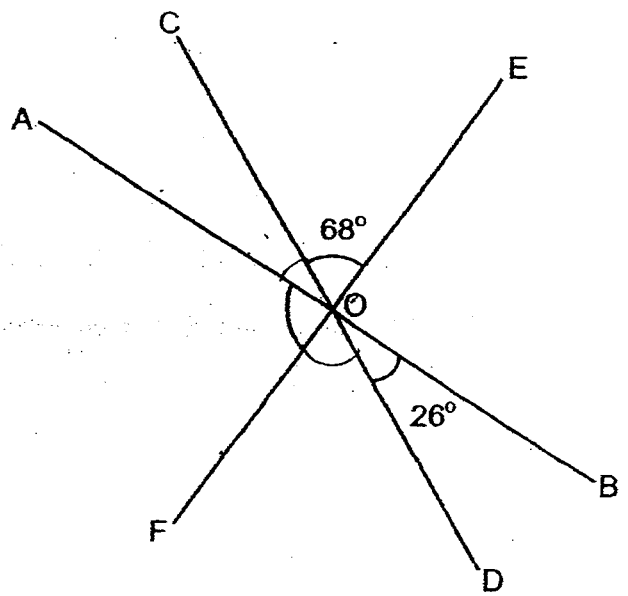
(Go on to the next page)

20. Nabilah mixed 5.3 litres of blue paint and 0.5 litres of red paint together. She then poured the mixture equally into 2 containers. What was the volume of paint in each container in millilitres?

Do not write in this space

Ans: _____ ml

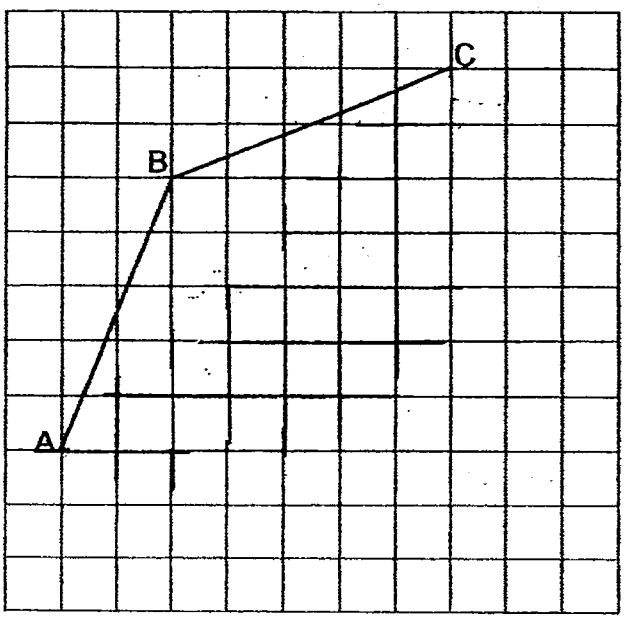
21. In the figure below, AB, CD and EF are straight lines. $\angle COE = 68^\circ$ and $\angle BOD = 26^\circ$. Find $\angle AOF$.



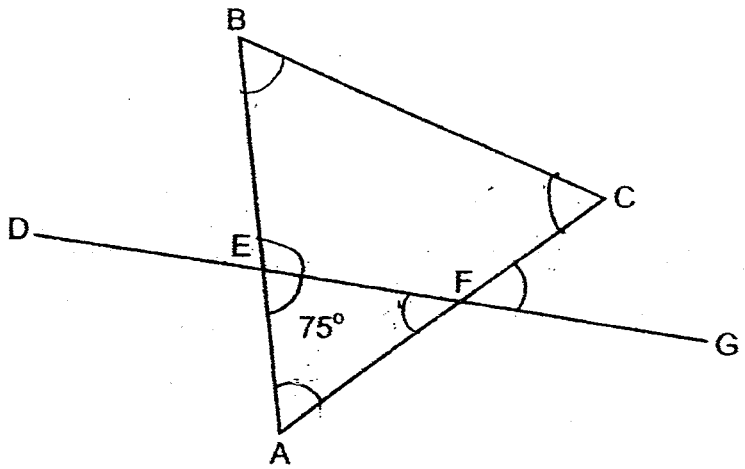
Ans: _____ °

(Go on to the next page)

22. AB and BC are two sides of a rhombus. Complete the rhombus by drawing the other two sides in the square grid below.



23. In the figure below, ABC is an equilateral triangle and DEFG is a straight line. $\angle AEF = 75^\circ$. Find $\angle CFG$.



Ans: _____ °

Do not write in this space

(Go on to the next page)

24. The average mass of 9 boys is 48 kg. What is their total mass?

Do not write in this space

Ans: _____ kg

25. Alice and Charlie had 180 sweets to share between themselves in the ratio of 1 : 5. How many more sweets did Charlie have than Alice?

Ans: _____

(Go on to the next page).

Questions **26** to **30** 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)

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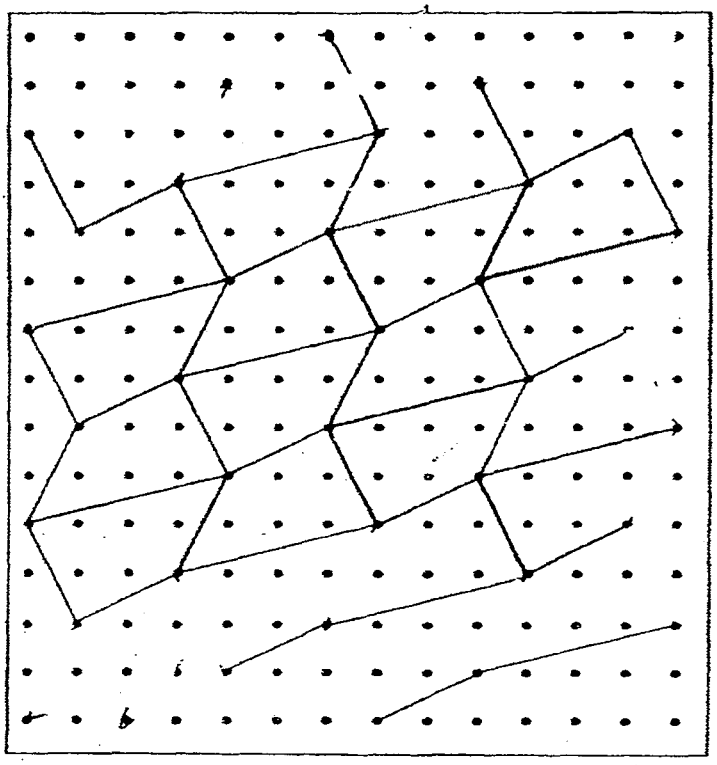
26. The pattern in the box below shows part of a tessellation. Extend the tessellation by drawing <u>two more</u> unit shapes in the space provided in the box.

Do not write in this space



(Go on to the next page)

27. At a standing broad jump event, Janice jumped a distance of 1.2 m. Calvin jumped 0.25 m less than Janice. What was the total distance jumped by the two children?

Do not write in this space

Ans: _____ m

28. 10 students stood in a straight line at equal distance apart from each other. Given that the distance between the first and the last student is 180 m, find the distance between the 3rd and the 9th students?

Ans: _____ m

(Go on to the next page)

29. Mr Chan earned $5000 a month. He saved 40% of it, spent $600 and gave the rest to his mother. How much money did he give to his mother?

Do not write in this space

Ans: $ _____

30. Jerine spent $\frac{3}{5}$ of her money on a dress and $\frac{1}{2}$ of the remaining money on a hat. She had $150 left. How much money had she at first?

Ans: $ _____

End of Paper 1

HENRY PARK PRIMARY SCHOOL
2015 SEMESTRAL EXAMINATION 1
MATHEMATICS
PRIMARY 5

PAPER 2

Name: _____

Class: Primary 5_____

/ 60

Time for Paper 2: 1 h 40 min

Do not turn over this page until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Show your working clearly as marks are awarded for correct working.

Write your answers in this booklet.

You are allowed to use a calculator.

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 space provided. For questions which require units, give your answers in the units stated. The diagrams in this paper are not drawn to scale. (10 marks)

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1. In a hall, $\frac{3}{10}$ of the students were girls. The rest were boys. There were 308 more boys than girls. How many children were there in the hall?

Do not write in this space

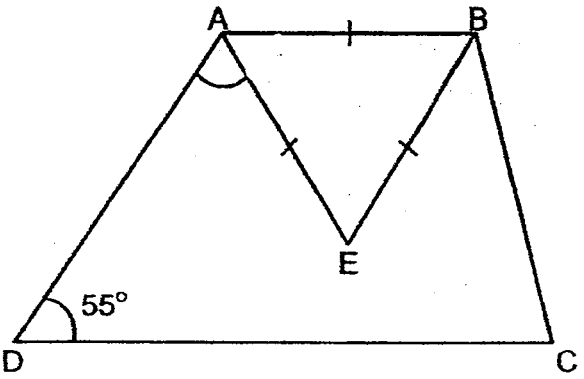
Ans: _____

2. Mrs Lim had 954 cm of cloth. She used 207 cm of it to make a table cloth and cut the remaining cloth into 9 equal pieces. What was the length of each piece of cloth? Express your answer in metres.

Ans: _____ m

(Go on to the next page)

3. In the figure below, ABCD is a trapezium. AB = BE = AE. ∠ADC = 55°. Find ∠DAE.



Ans: _____ °

4. The mass of a plate is three times the mass of a cup. The total mass of 3 plates and 2 cups is 1320 g. What is the mass of a plate?

Ans: _____ g

Do not write in this space

(Go on to the next page)

5. The parking charges at a mall are as follows:

Duration of Parking	**Charges**
First hour	$2.30
Every additional $\frac{1}{2}$ hour or part thereof	$1.10

Mr Ali parked his car at the carpark from 4.40 p.m. to 7.00 p.m.
How much did he pay for the parking fee?

Ans: $ _____

Do not write in this space

(Go on to the next page)

For questions **6** to **18**, show your working clearly in the space provided for each question 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. (50 marks)

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6. Durians are packed into baskets A, B and C in the ratio 2 : 6 : 11.
There are 315 more durians in basket C than in basket A.
Find the total number of durians in all three baskets.

Do not write in this space

Ans: _____ [3]

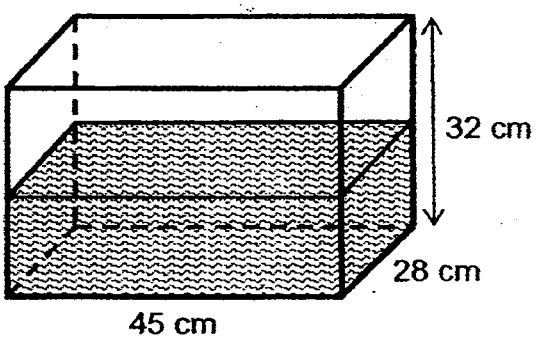
7. The prices of guppies are shown in the poster below. What is the least amount of money that John will need to pay for 164 guppies?

Do not write in this space

Ans: _____ [3]

(Go on to the next page)

8. Henry had a tank that was $\frac{1}{2}$ filled with water at first. He then added 14.7 ℓ of water into it. How much more water would Henry need to fill the tank to the brim?



Ans: _____ [3]

Do not write in this space

(Go on to the next page)

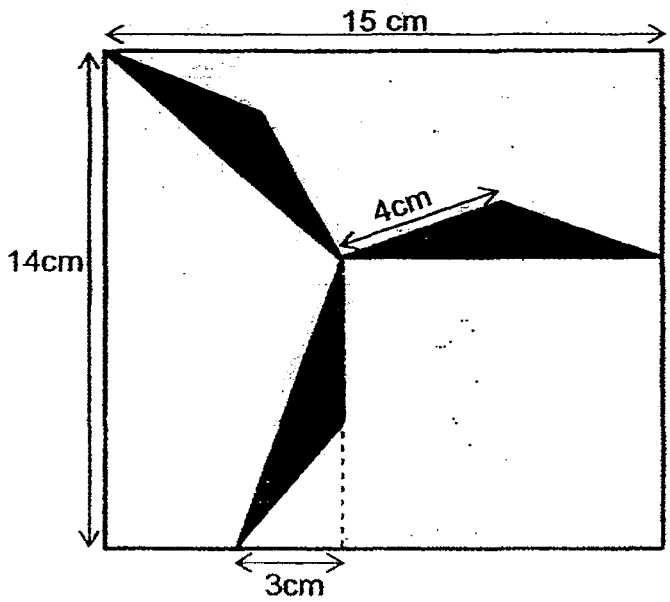
9. There were a total of 850 balloons at a school carnival. 68% of the balloons were red. $\frac{1}{4}$ of the remaining balloons were blue and the rest were pink. How many pink balloons were there?

Do not write in this space

Ans: _____ [3]

10. The shaded figure below is made up of three identical isosceles triangles. Find the area of the unshaded part.

Do not write in this space



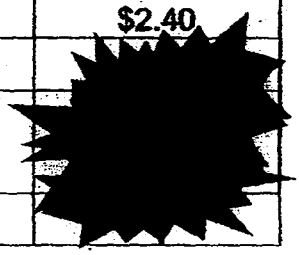
Ans: _____ [3]

(Go on to the next page)

11. Mr Tan and his family had dinner at Yummy Chicken Rice Restaurant. The items ordered and the prices are shown in the receipt below.

Do not write in this space

Description	Quantity	Cost
Steam Chicken (whole)	1	$28
Rice	4	$3.20
Stir-fried vegetables	1	$5.50
Tofu	1	$2.40
Sub-total		
10% service charge on the sub-total		
Total bill with 7% GST		



Part of the receipt was dirtied and some information could not be seen.

(a) Mr Tan had to pay a 10% service charge on the sub-total of the bill. How much service charge did Mr Tan have to pay?

(b) Mr Tan's total bill also included a 7% GST. What was the total bill inclusive of the service charge and GST? Round off your answer to the nearest dollar

Ans: (a) _____ [2]

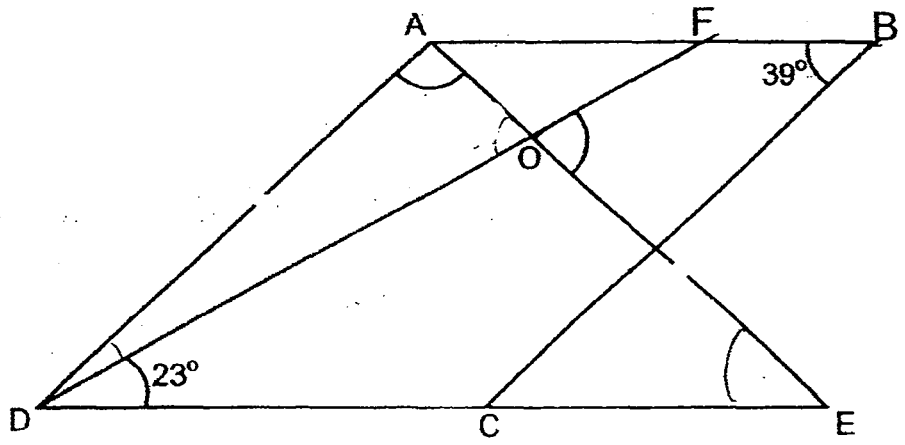
(b) _____ [2]

12. In the figure below, ABCD is a parallelogram and ADE is an isosceles triangle. AD = AE, ∠ABC = 39° and ∠EDF = 23°.

Do not write in this space

(a) Find ∠DAE.

(b) Find ∠EOF.



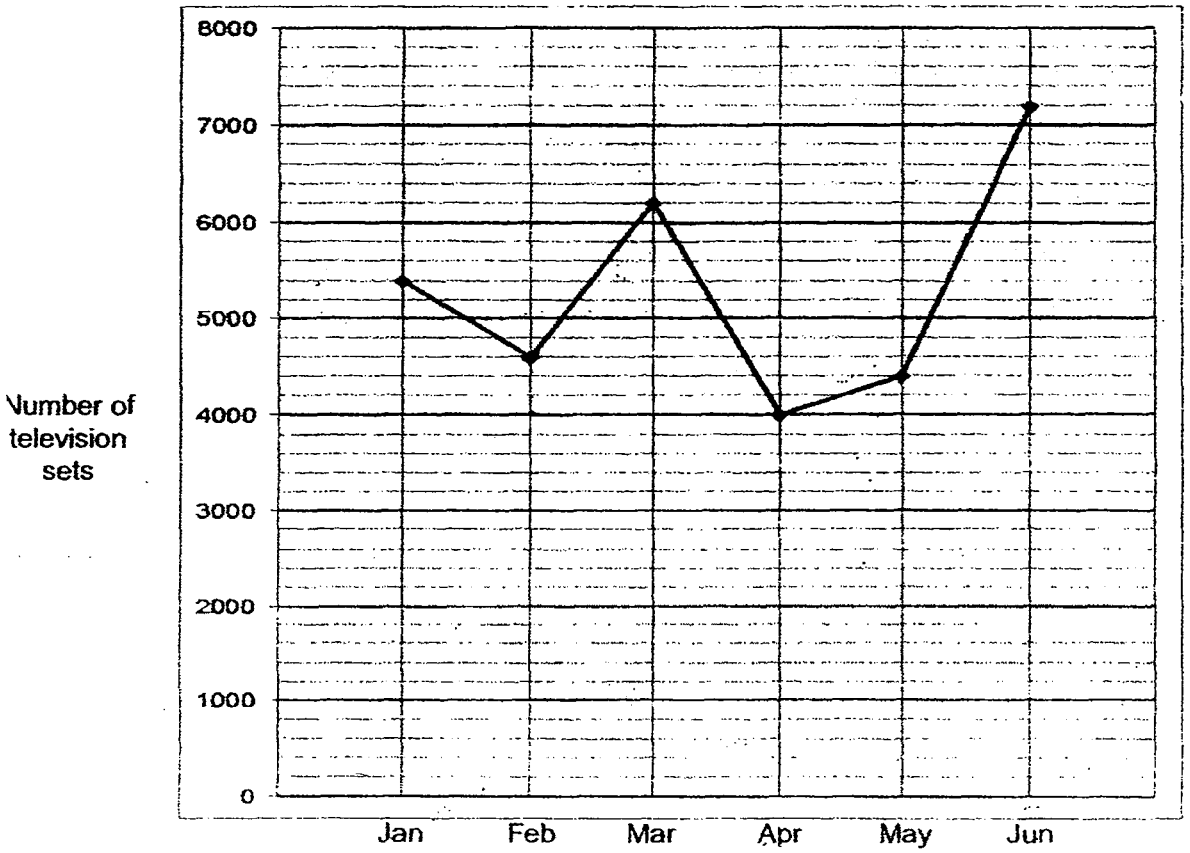
Ans: (a) _____ [2]

(b) _____ [2]

(Go on to the next page)

13. The line graph below shows the number of television sets sold by a shop from January to June.

Do not write in this space



The average number of television sets sold from January to December is 5450. What is the average number of television sets sold from July to December?

Ans: _____ [4]

(Go on to the next page)

14. A shop charges $3 for a T-shirt. For every 30 T-shirts purchased, a 5% discount was given. How much would Miss Chin have to pay for 189 T-shirts?

Do not write in this space

Ans: _____ [4]

(Go on to the next page)

15. Chun Yat bought a bag with $\frac{2}{15}$ of his money. He also bought a watch that cost \$204 more than the bag. In the end, he had $\frac{1}{5}$ of his original sum of money left. How much money did he have at first?

Do not write in this space

Ans: _____ [4]

16. There were 226 more children in Group A than in Group B at first. After 33 children from Group A moved to Group B, there were 5 times as many children in Group A than Group B.

(a) How many more children were there in Group A than Group B after the movement?

(b) How many children were there in Group A and Group B altogether?

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

17. Faith spent $\frac{4}{11}$ of her money on some pens. She spent $\frac{3}{7}$ of the remaining sum on a box of crayons and $\frac{1}{2}$ of what was left on a school bag.

(a) What fraction of Faith's money was left?

(b) Given that the school bag and the box of crayons cost $57.50 altogether, find the sum of money Faith had at first.

Do not write in this space

Ans: (a) _____ [2]

(b) _____ [3]

(Go on to the next page)

18. There are three times as many brown marbles as white marbles. The mass of a brown marble is 7 g. The mass of a white marble is 12 g. The total mass of the marbles is 17.16 kg. How many more brown marbles than white marbles are there?

Do not write in this space

Ans: _____ [5]

-END OF PAPER-

EXAM PAPER 2015
LEVEL : PRIMARY 5
SCHOOL : HENRY PARK PRIMARY SCHOOL
SUBJECT : MATHEMATICS
TERM : SA1

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

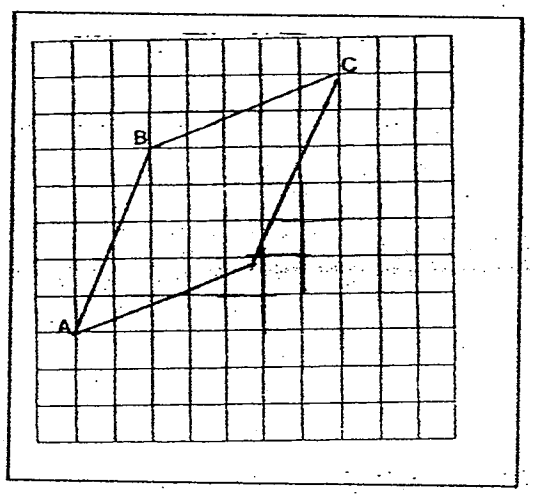
Q16. 74.5 Q17. 2000cm^3 → 25 x 20 = 500, 500 x 4 = 2000

Q18. 16 Q19. 4062.5

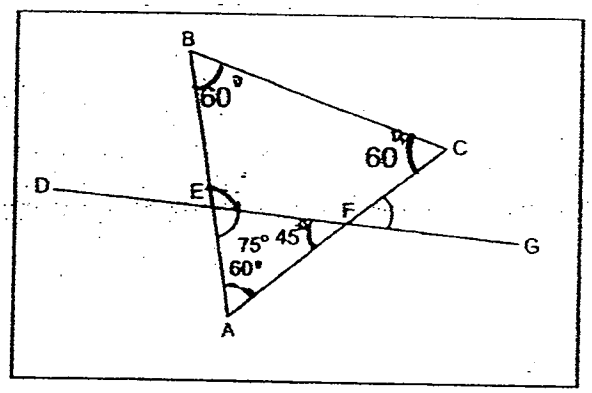
Q20. 2900ml → 5.8÷2=2.9, 2.9litre = 2900ml.

Q21. 86° →68 +68 +26=26 = 188, 360 −188=172, 172÷2=86

Q22. SEE PICTURE



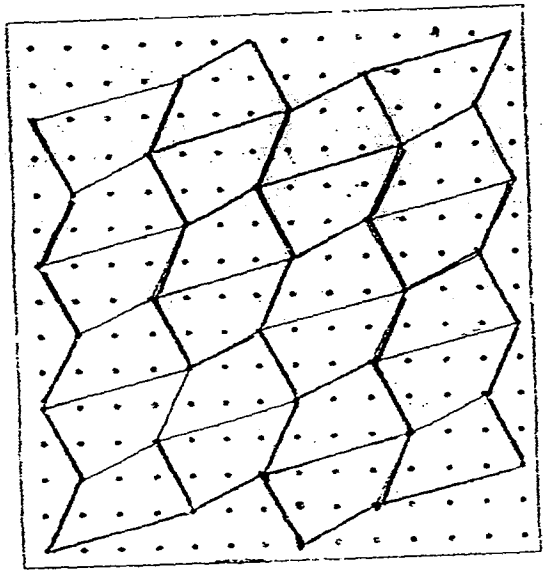
Q23. 45° →SEE PICTURE



Q24. 432kg → 48 x 9 = 432

Q25. 120 → 180÷6=30, 30 x 4 = 120

Q26. SEE PICTURE



Q27. 2.15m→ 1.20 – 0.25 = 0.95, 1.20 +0.95 = 2.15

Q28. 120m→ 180÷9 = 20, 20 x 6 = 120

Q29. \$2,400 → $\frac{60}{100}$ X 5000 = 3000, 3000 – 600 = 2400

Q30. \$750→ 150 ÷2 = 75, 75 x 10 = 750

PAPER 2

Q1. 770→ 308 ÷4 = 77, 77 x 10 = 770

Q2. 0.82m →954 –207 = 747, 747÷9 = 83, 83cm = 0.83m

Q3. 65°→ 180 – 55 = 125, 125 – 60 = 65

Q4. 360g→1320 ÷ 11 = 120, 120 x 3 = 360

Q5. \$5.60→ 2.30 + 1.10 +1.10 +1.10 = 5.60

Q6. 665 durians→ 315 ÷ 9 = 35, 35 x 19 = 665

Q7. \$90.70 →164÷3 = 54R2, 1.65 x 54 = 89.10, 0.80 x 2 = 1.60,
8.90 +1.60 = 90.70

Q8. 5460ml→ 32 x 28 x 45 = 40320, 40320 ÷ 2 = 20160,
20160 + 14700 = 34860, 40320 – 34860 =5460

Q9. 204 pink balloons → $\frac{68}{100}$ x 850 = 578, 850 – 578 = 272,
272 ÷ 4 = 68, 272 – 68 = 2

Q10. 192cm^2 15 x 14 = 210, 3 x 4 ÷ 2 = 6, 6 x 3 = 18, 210 – 18 = 192

Q11a. \$3.91 → 28 + 3.20 + 5.50 + 2.40 = 39.10 , $\frac{10}{100}$ x 39.10 = 3.91

Q11b. \$7 → 107% x 43.01 = 46.0207 ≈ 46

Q12a. 102° → 39–23=16, 39 =39=78, 180 – 78 = 102

Q12b. 62° → 16 = 102 = 118, 180 – 118 = 62

Q13. \$5600 → 5450 x 12 = 65400, 65400 – 31800 = 33600,
33600 ÷ 6 = 5600

Q14. \$540 → 3 x 30 =90, $\frac{95}{100}$ x 90 = 85.50, 189 ÷ 30 = 6R9,
85.50 x 6 = 513, 3 x 9 = 27, 513 + 27 = 540

Q15. \$382.50 → 15 – 7 = 8, 8u = \$204, 204 ÷ 8 = 25.50,
25.50 x 15 = 382.50

Q16a. 160 children , Q16b. 240 altogether →
33 x 2 = 66, 226 – 66 = 160, 160 ÷ 4 = 40, 40 x 6 = 240

Q17a. $\frac{2}{11}$ → $\frac{4}{11}$, $\frac{2}{11}$ → $\frac{3}{7}$ x $\frac{2}{11}$ = $\frac{3}{11}$, $\frac{4}{11}$ → $\frac{1}{2}$ x $\frac{4}{11}$,

Q17b. \$126.50 → 57.50 ÷ 5 = 11.50, 11.50 x 11 = 126.50

Q18. 1040 more → 7 x 3 (12 x 1) = 33u, 17160 ÷ 33 = 520, 520 x 2 = 1040

THE END