2018 PRIMARY 5 SEMESTRAL ASSESSMENT 1

Name: _____ (   )   Date: 11 May 2018

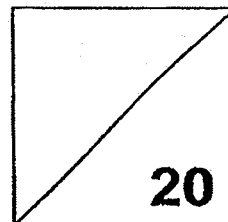Class: Primary 5 (   )   Time: 8.00 a.m. - 9.00 a.m.

Parent's Signature: _____   Marks: _____ / **100**

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET A)

20

INSTRUCTIONS TO CANDIDATES

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided.
6. You are **not** allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Questions 11 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).
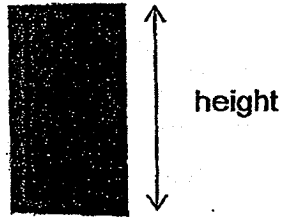Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.   (20 marks)

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1. Which one of the following has the digit 4 in the hundreds place?

    (1)   154 708

    (2)   342 951

    (3)   482 751

    (4)   732 458

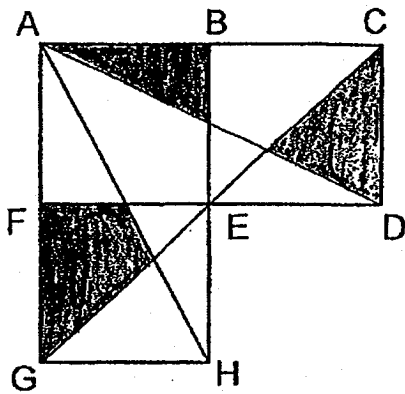2. What is the estimated height of the door of the classroom?

    (1)   0.24 m

    (2)   2.40 m

    (3)   24 m

    (4)   240 m

     height

3. Which one of the following is **not** equal to 1.4?

    (1) $1\dfrac{12}{30}$

    (2) $1\dfrac{4}{10}$

    (3) $1\dfrac{1}{25}$

    (4) $1\dfrac{2}{5}$

4. The figure is made up of 3 squares, ABEF , BCDE and EFGH. What fraction of the figure is shaded?

(1) $\dfrac{1}{1}$

(2) $\dfrac{3}{4}$

(3) $\dfrac{1}{2}$

(4) $\dfrac{1}{3}$

5. Express $\dfrac{3}{24}$ as a decimal.

(1)   0.08
(2)   0.12
(3)   0.125
(4)   0.135

6   Find the value of (8 x 3) - 14 + 50 ÷ 10

    (1)   5

    (2)   6

    (3)   15

    (4)   39

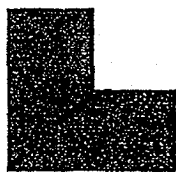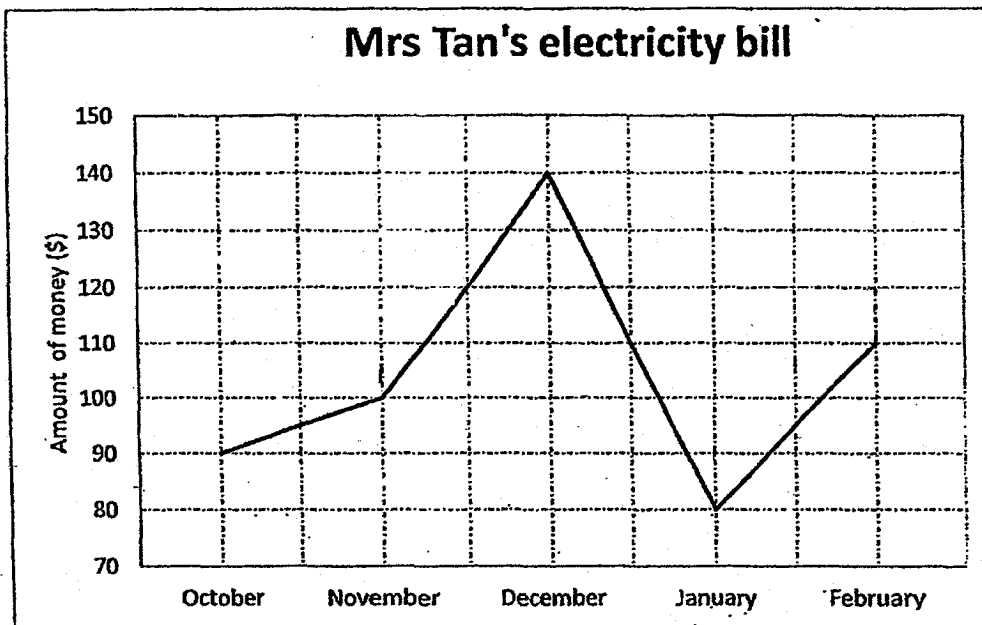7.   Which of the following shapes is not symmetrical?
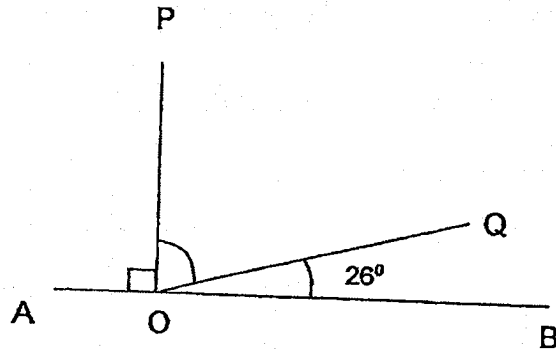
    (1)

    (2)

    (3)

    (4)

8. The graph below shows Mrs Tan's electricity bill for the past 5 months.

Mrs Tan's electricity bill

Between which months was the increase in the electricity consumption the greatest?

(1) October and November

(2) November and December
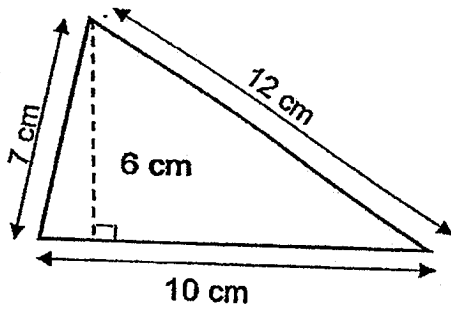
(3) December and January

(4) January and February

9.

Find ∠ POQ.

(1)   26°

(2)   64°

(3)   116°

(4)   154°

10. Find the area of the triangle.


(1)   21 cm²

(2)   30 cm²

(3)   36 cm²

(4)   60 cm²

11. Mark had a box of counters of different shapes. He counted the shapes as shown in the table.

| Star	Circle	Oval	Triangle
12	18	9	6

Find the ratio of the number of circles to the total number of shapes.

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

12. Mrs Tan baked 250 pineapple tarts every day for a week. Then she packed them into boxes of 50 each. How many boxes of pineapple tarts were there?

(1)   5
(2)   25
(3)   35
(4)   350

13. A rectangular piece of paper is folded into fifths and partially shaded.
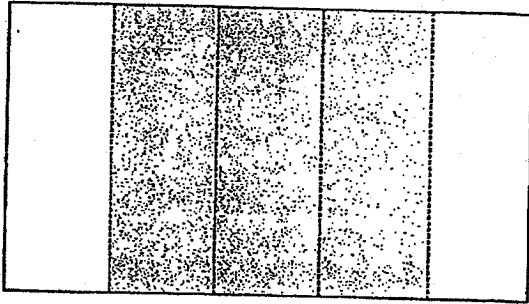
The same piece of paper is then folded into quarters and stripes drawn over some of the shaded area
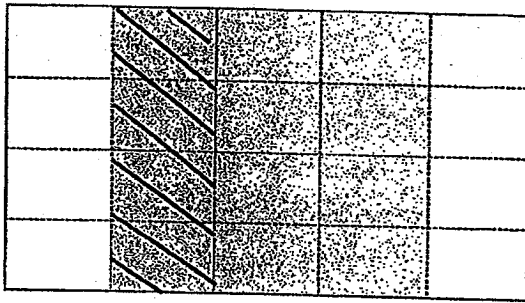
Which one of the following shows the fraction of the piece of paper with stripes drawn over the shaded area?

(1) $\dfrac{1}{4} \times \dfrac{3}{5}$
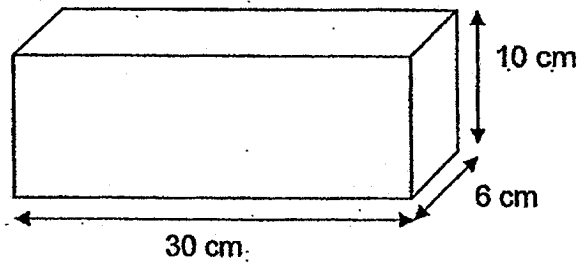
(2) $\dfrac{3}{4} \times \dfrac{3}{5}$

(3) $\dfrac{4}{12} \times \dfrac{3}{5}$

(4) $\dfrac{4}{20} \times \dfrac{3}{5}$

14. Mrs Wong had 100 stickers. She distributed them equally among 5 groups of students in her class. Every student received 5 stickers. How many students were there in each group?
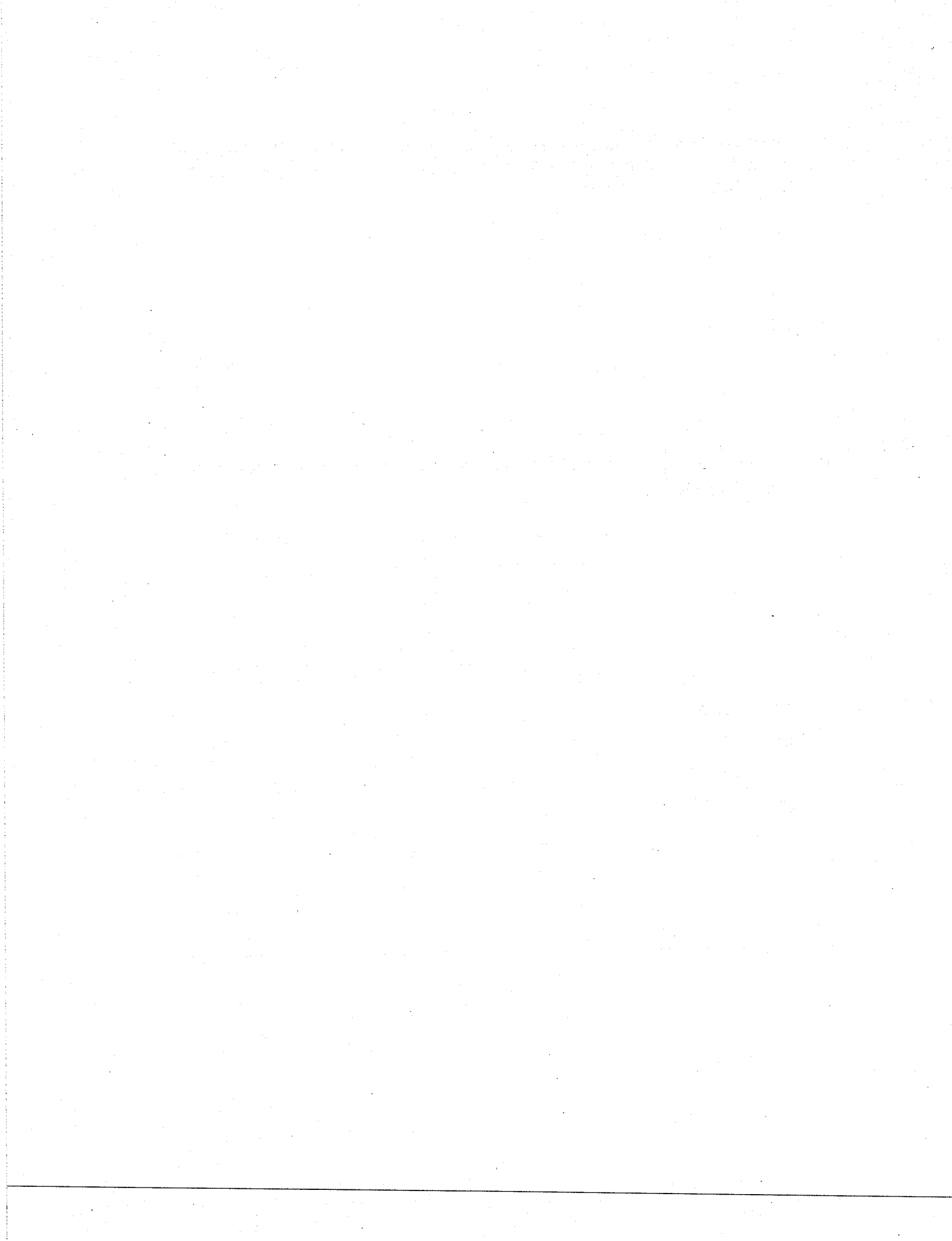
(1)   25
(2)   20
(3)   5
(4)   4

15. A water tank is $\frac{2}{5}$ filled with water. What is the amount of water needed to fill the tank completely?

(1)   360
(2)   720
(3)   1080
(4)   1800

End of Booklet A

2018 PRIMARY 5 SEMESTRAL ASSESSMENT 1

Name : _____ (   )   Date: 11 May 2018

Class : Primary 5 (   )   Time: 8.00 a.m. - 9.00 a.m.

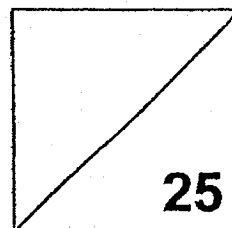Parent's Signature : _____

Paper 1 comprises 2 booklets, A and B.

MATHEMATICS

PAPER 1

(BOOKLET B)

25

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.
6. You are **not** allowed to use a calculator.

Questions **16** to **20** carry **1** mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated.   (5 marks)

16.   Write 5 245 067 in words.

Ans: _____

17.   302 721 = _____ + 700 + 21

Ans: _____

18.   A toy shop has some toy cars as shown in the table.

Blue Toy Cars	Green Toy Cars	Red Toy Cars
200	160	240

Find the ratio of the number of blue toy cars to the number of green toy cars to the number of red toy cars. Express the ratio in its simplest form.

Ans: _____

19. Shade $\frac{3}{5}$ of the rectangle.
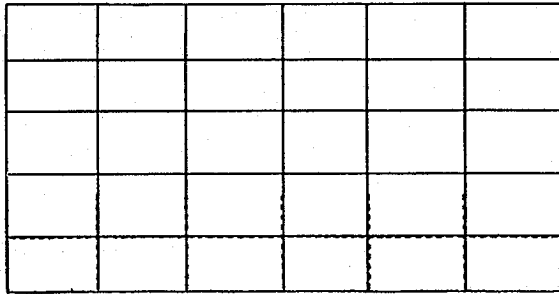
20. Mr Lim buys 1.3kg of flour. He packs the flour into packets of 200g each. How much flour is left ?

Ans: _____ g

Questions **21** 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. (20 marks)

21.   The graph shows the favourite type of burgers among students in a class.
        What fraction of the class considers fish burger as their favourite?
        Express your answer in its simplest form.

Favourite Type of Burgers

Number of students

16
14
12
10
8
6
4
2
0

Chicken   Fish   Ham   Sausage Egg
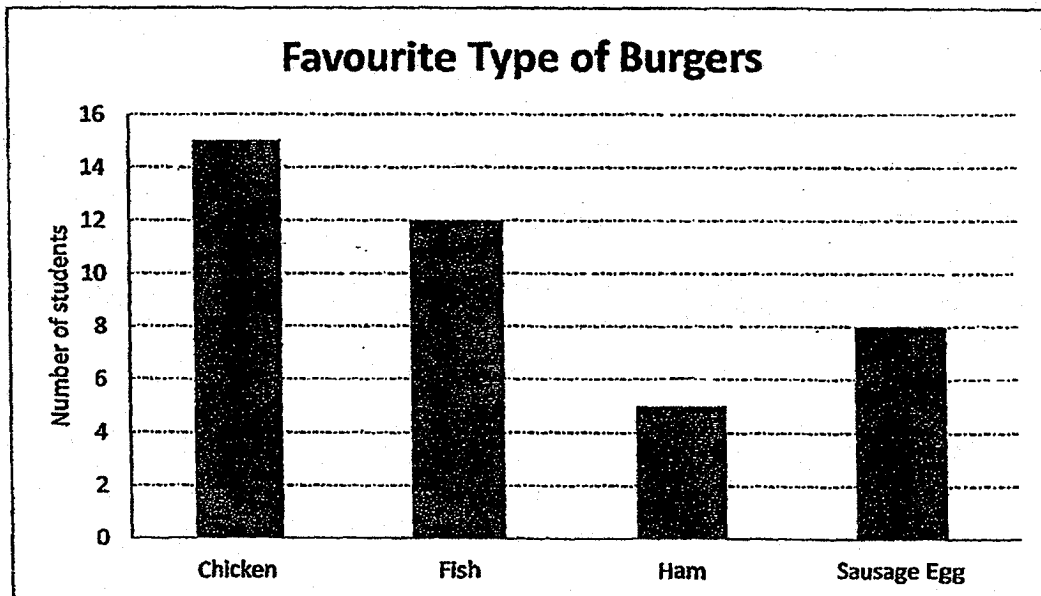
Ans: _____

22.   Mrs Tan had to pack 80 muffins into boxes.
        She packed them in boxes of 6 muffins each.
        What was the least number of boxes Mrs Tan
        need to pack all the muffins?
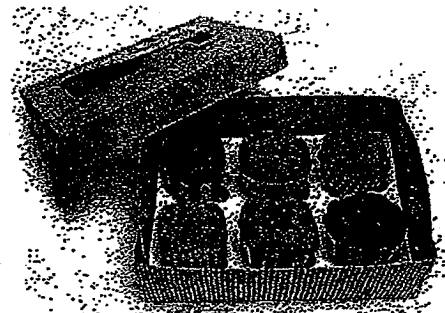
Ans: _____

23.　In the figure below, not drawn to scale, ∠ a = ∠ b,　Find ∠ a.

a

b   220°
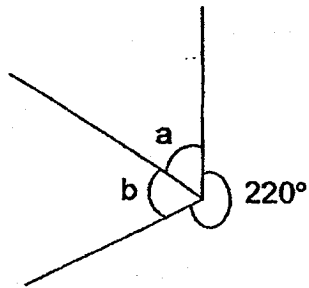
Ans: _____°

24.　Tom uses 3 ℓ of black paint to paint $\frac{2}{5}$ of a pole.
How much more paint does Tom need if he wants to paint the whole pole?

Ans: _____ ℓ

25.　Use all of the following digits to form the smallest odd number that is divisible by 6.

0,　6,　9,　2,　1

Ans: _____

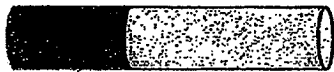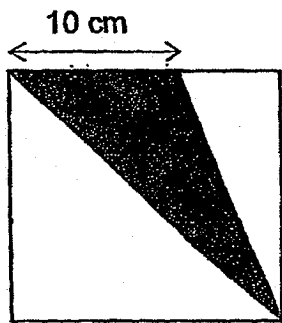26. Peter sold $\frac{3}{4}$ of his oranges and threw away $\frac{2}{5}$ of the remainder. He had 36 oranges left. How many oranges did Peter have at first?

Ans: _____

27. The figure shows a 14-cm square. Find the area of the unshaded part of the square.

10 cm

Ans: _____ cm²

28. Amy listed the number 2 to 29. How many times does the digit '2' appear?

2, 3, 4, ..., 27, 28, 29

Ans: _____

29. A shop opens for the time shown in the table.

Opening hours
9.00 a.m. to 12.30 p.m.
2.00 p.m. to 4.00 p.m.
6.45 p.m. to 9.30 p.m.

How many hours and minutes is the shop open each day?

Ans: _____h _____min

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30. The ratio of the breadth of a rectangle to its perimeter is 1: 6. The length of the rectangle is 8 cm. Find the area of the rectangle.

8 cm
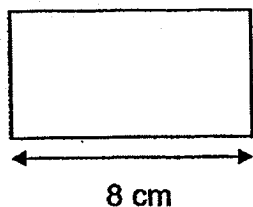
Ans: _____ cm²

End of Booklet B

End of Paper 1

11

2018 PRIMARY 5 SEMESTRAL ASSESSMENT 1

Name : _____ (   )   Date: <u>11 May 2018</u>

Class : Primary 5 (   )   Time: <u>10.30a.m. – 12 noon</u>

Parent's Signature : _____

MATHEMATICS

PAPER 2
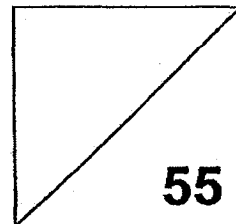
55

INSTRUCTIONS TO CANDIDATE

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Show your working clearly as marks are awarded for correct working.
6. 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 spaces provided. For questions which require units, give your answers in the units stated.   (10 marks)

1a. Arrange the following numbers in ascending order.

2.078, 2.87, 2.087, 2.78

b. Which one of the fractions is the greatest?

$$\frac{1}{2}, \frac{3}{4}, \frac{2}{5}$$

Ans: a) _____

b) _____

2.   A fruit seller bought 1512 apples and packed them into boxes of 63. He sold each box at $19. How much would he collect if he sold all the apples?

Ans: $_____

3.   Find all the common factors of 12 and 18.

Ans: _____

4. A school with 74 classes aims to collect 2000 kg of empty cans in a year. Every class collects the same mass of empty cans. What is the mass of the empty cans to be collected by each class in a month? Express your answer as a decimal rounded off to 2 decimal places.

Ans: _____ kg

5a. Jane is facing the school. Where will she be facing if she turns 225° clockwise?

b. Peter is facing the library after making a $\frac{1}{4}$-turn anticlockwise. What was he facing at first?

Ans: a) _____

b) _____

2
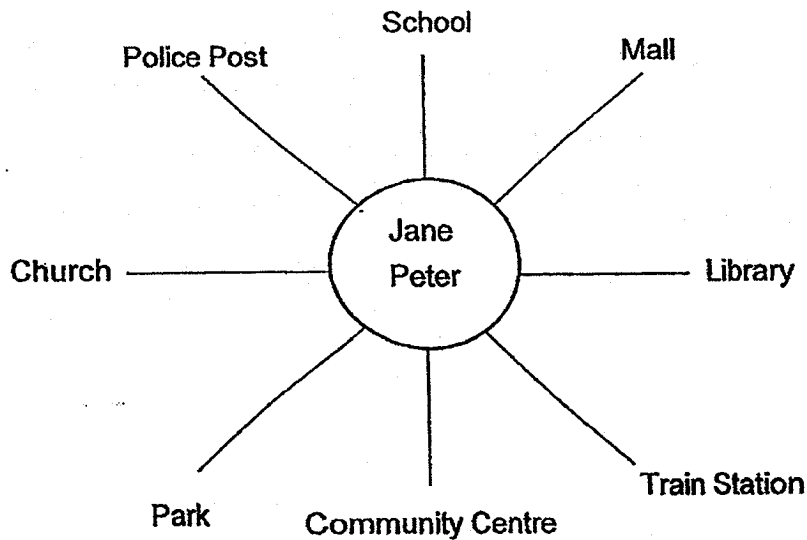
For questions **6** to **17**, show your working clearly in the space provided for each question and write your answers in the spaces provided.
The number of marks available is shown in brackets [ ] at the end of each question or part-question.   (45 marks)

6.   At a gathering, there were an equal number of boys and girls. Then, 24 girls left and 15 boys joined the group. At the end of the gathering, there were four times as many boys as girls. How many girls were there at first?

Ans: _____ [3]

7.   Samantha has 14.4 kg of flour. She uses $\frac{1}{2}$ of it to make 20 cakes. With the remaining flour, she made 15 tarts. How much more flour is needed to bake a tart than a cake?

Ans: _____ [3]

8. The figure below is made up of two squares. Find the shaded area.
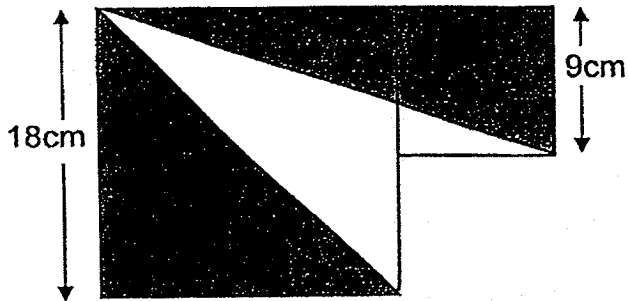
Ans: _____ [3]

9. The ratio of Nura's age to Amy's age is 5 : 4. Three years ago, Nura was 12 years old. Find the ratio of Nura's age to Amy's age in 8 years' time.

Ans: _____ [3]

10. A total of 168 sweets and chocolates were packed equally into 14 bags. There were 6 more sweets than chocolates in each bag. How many chocolates were there?

Ans: _____ [3]

11. The ratio of the number of twenty-cent coins to the number of fifty-cent coins in a box is 5 : 2. The total amount of money in the box is $10. How many fifty-cent coins and twenty-cent coins are there altogether?

Ans: _____ [4]

12. The table shows the flight schedule for 3 different airlines from Singapore to Hong Kong.

| Flight Information	Departure Time (Singapore)	Weekly Schedule
SA 388 Ringa Air	7.55 p.m.	Saturday, Sunday, Monday, Friday
GA 587 Getstar Air	3.40 p.m.	Saturday, Tuesday, Wednesday, Friday
ZA 912 Zoot Air	4.55 p.m.	Sunday, Monday, Thursday, Friday

a. Mr Pang wanted to buy the cheapest air ticket. The cheapest air ticket offered by all airlines was for travel from Monday to Thursday.
   (i) Which flight would give Mr Pang more options if he could only travel on Monday, Tuesday or Thursday?
   (ii) How many options were there?

b. It takes 3 h 55 min to travel from Singapore to Hong Kong. Which airline should Mdm Goh take in order to reach Hong Kong at 19 35?

Ans: a) (i)_____ [1]

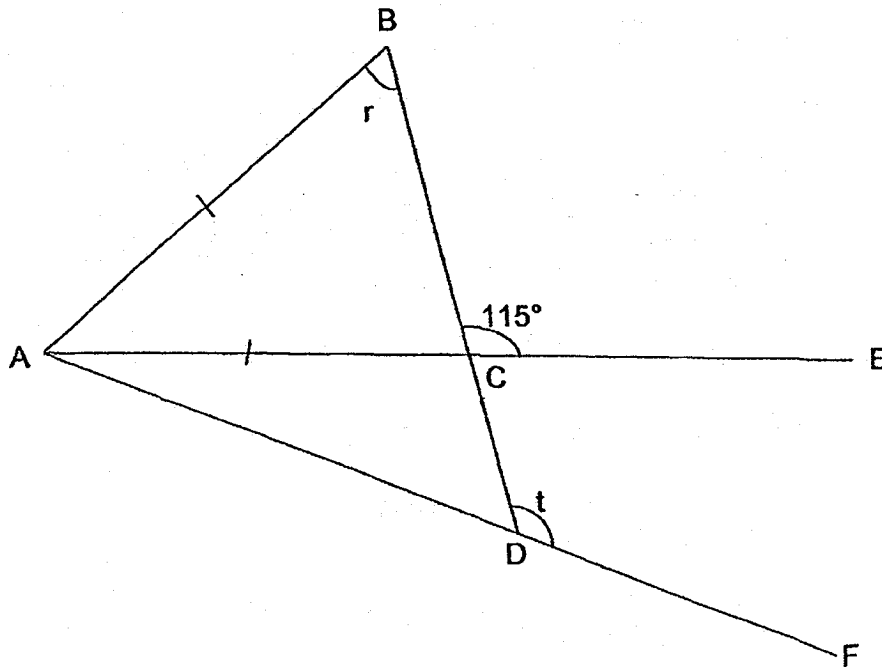(ii) _____[1]

b) _____[2]

13.   256 cubes of side 4cm are needed to fill the box completely. What is the height of the box?

Box

16 cm

32 cm

4 cm
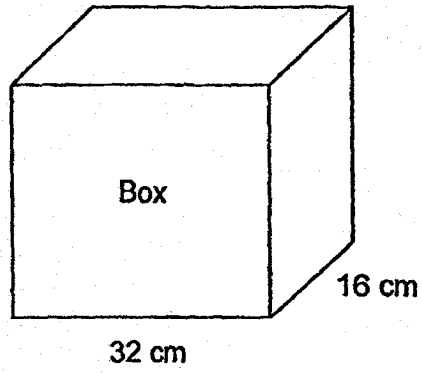
Ans: _____ [4]

14. ACE and ADF are straight lines. ABC is an isosceles triangle. ∠BCE = 115°
∠BAC is twice ∠CAD.
Find
(a) ∠r
(b) ∠t.

B

r

115°

A ———————————————— E
C

t
D

F

Ans: ∠r = _____ [1]

∠t = _____ [3]

15. The graph below shows the number of books sold each month by Hassim.
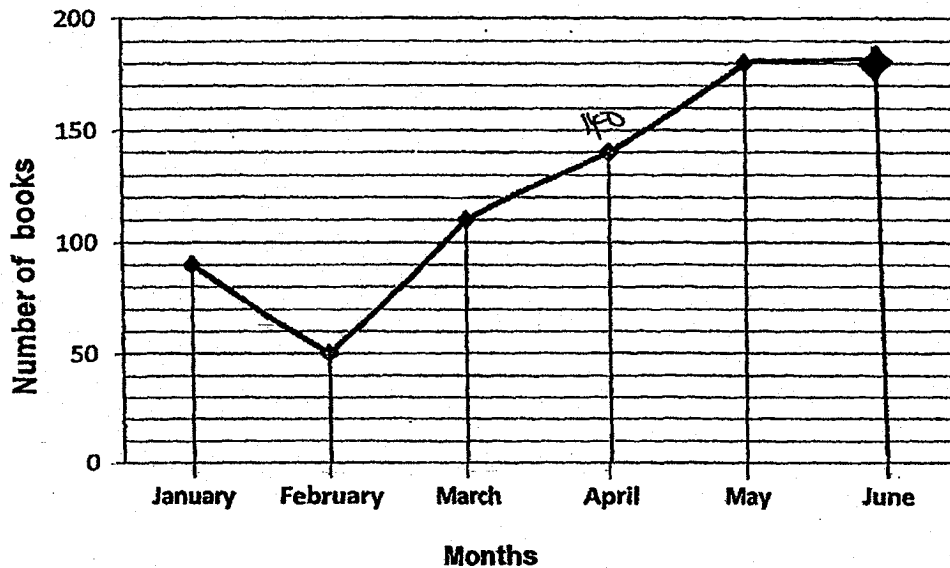
(a) In which month was the least number of books sold?

(b) In June, Hassim sold twice as many books as in January.
Complete the line graph. [1]

(c) Hassim made a profit of $2 per book sold. How much more did he make in May than in February and March?

Ans: (a)_____[1]

(c)_____[2]

16. Kelly had some pencils to sell. On the 1st day, she sold 33 pencils. On the 2nd day, she sold $\frac{1}{5}$ of the remaining pencils. The total number of pencils sold on the first two days was thrice that of the number of pencils left. How many pencils did she have at the beginning?

Ans: _____ [5]

17. At a birthday party, every girl was given 4 cupcakes while every boy was given 6 cupcakes. There were twice as many girls as boys at the party. A total of 700 cupcakes were given out.

(a) How many girls were at the party?

(b) An adult was present for every 10 children at the party. How many adults were there at the party?
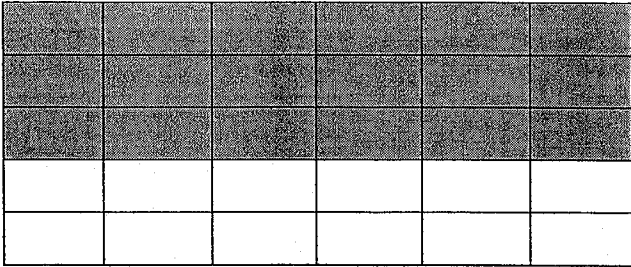
Ans: (a) _____ [3]

(b) _____ [2]

End of Paper 2

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
2	1	3	4	3

PAPER 1 BOOKLET B

Q16)	Five million, two hundred and forty-five thousands and sixty-seven
Q17)	302 000
Q18)	5:4:6
Q19)	
Q20)	1300 ÷ 20 = 6 R 100 (Ans: 100)
Q21)	3/10
Q22)	80 ÷ 6 = 13 R 2 13 + 1 = **14**
Q23)	360 − 220 = 140 140 ÷ 2 = **70**
Q24)	3 ÷ 2 = 1.5 1.5 x 3 = **4.5**

Q25)	10296
Q26)	¼ x 2/5 = 1/10 36 x 10 = 360 36 ÷ 3 = 12 12 x 5 = 60 60 x 4 = **240**
Q27)	½ x 10 x 140 = 70 14 x 14 = 196 196 – 70 = **126**
Q28)	13
Q29)	**8 h 15 min**
Q30)	1 x 2 = 2 6 – 2 = 4 8 x 2 = 16 16 ÷ 4 = 4 8 x 4 = 32

PAPER 2

Q1)	**A) 2.078, 2.087, 2.78, 2.87** **B) 3/4**
Q2)	1512 ÷ 63 = 24 24 x 19 = **456**
Q3)	Factor of 12: 1,2,3,4,6,12 Factor of 18: 1,2,3,6,9,18 **Ans: 1, 2, 3, 6**
Q4)	2000 ÷ 74 ÷ 12 ~ **2.25**
Q5)	a) **Park** b) **Community Centre**
Q6)	24 + 15 = 39 39 ÷ 3 = 13 13 + 24 = **37**

Q7)	14.4 ÷ 2 = 7.2 7.2 ÷ 20 = 0.36 7.2 ÷ 15 = 0.48 0.48 - 0.36 = 0.12 $\qquad$ =**3/25 kg**
Q8)	½ x 18 x 18 = 162 ½ x 9 x 27 = 121.5 162 + 121.5 = **283.5 cm²**
Q9)	12 + 3 = 15 15 ÷ 5 = 3 4 x 3 = 12 15 + 8 = 23 12 + 8 = 20 **Ans: 23:20**
Q10)	6 x 14 = 84 168 − 84 = 84 84 ÷ 14 = 6 6 ÷ 2 = 3 3 x 14 = **42**
Q11)	5 x 20 = 100 2 x 50 = 100 100 + 100 = 200 1000 ÷ 200 = 5 5 x 2 = 10 5 x 5 = 10 25 + 10 = **35**
Q12)	I) **2A 912 Zoot Air** II) **2** III) **GA 587 Getstar Air**
Q13)	32 ÷ 4 = 8 16 ÷ 4 = 4 8 x 4 = 32 256 ÷ 32 = 8 8 x 4 = **32**

Q14)	Angle r —> 180 – 115 = 65 65 x 2 = 130 Angle BAC —> 180 – 130 = 50 Angle CAD —> 50 ÷ 2 = 25 Angle t —> 25 + 115 = **140**

Q15)	**A) February**
	 B) {Draw until the same point as in May}
	 C) 180 x 2 = 360
	     50 + 110 = 160
	     160 x 2 = 320
	     360 – 320 = **40**

Q16)	12 – 1 = 11 33 ÷ 11 = 3 12 + 4 = 16 16 x 3 = **48**

Q17)	A) 4 x 2 = 8
	     8 + 6 = 14
	     700 ÷ 14 = 50
	     50 x 2 = **100**
	
	 B) 100 + 50 = 150
	     150 ÷ 10 = **15**