

AT / SL / KYS / TMY / CHIA

SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2017

PRIMARY 5
MATHEMATICS
PAPER 1
BOOKLET A

Name : _____ ()

Class : Primary 5 SY/C/G/SE/P

		Marks attained	Max Mark	Parent's Signature
Paper 1	Booklet A		20	
	Booklet B		25	
Paper 2			55	
Total Marks			100	

15 Questions
20 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions.

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 question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

1. $300\ 000 + 40\ 000 + 600 + 5 = \underline{\hspace{2cm}}$.

(1) 304 605

(2) 304 650

(3) 340 605

(4) 340 650

2. What is the value of the digit 7 in 12.07?

(1) 7 tens

(2) 7 ones

(3) 7 tenths

(4) 7 hundredths

3. Solve $\frac{2}{5} \times 6$.

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

(2) $\frac{1}{15}$

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

(4) $5\frac{1}{5}$

4. Arrange the following in ascending order of length:

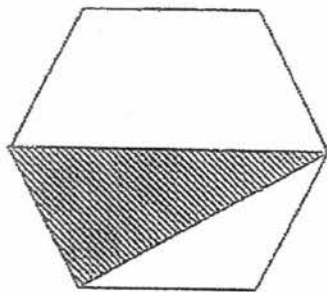
450 m, 1.5 km, $\frac{1}{2}$ m, 300 m.

- (1) $\frac{1}{2}$ m, 300 m, 450 m, 1.5 km
- (2) $\frac{1}{2}$ m, 1.5 km, 300 m, 450 m
- (3) 300 m, 450 m, $\frac{1}{2}$ m, 1.5 km
- (4) 1.5 km, $\frac{1}{2}$ m, 450 m, 300 m
5. $6 \times 24 + 5 \times 24 + 24 = 24 \times \underline{\hspace{2cm}}$
- (1) 11
- (2) 12
- (3) 30
- (4) 35
6. In a class, $\frac{1}{5}$ of the pupils are girls. What percentage of the class are boys?
- (1) 20%
- (2) 25%
- (3) 75%
- (4) 80%
7. A bag contains some sweets that can be divided equally among 3, 4 or 6 children with no remainder. What is the smallest possible number of sweets in the bag?
- (1) 6
- (2) 12
- (3) 18
- (4) 24

8. The ratio of the number of red to blue marbles is 2 : 3. The ratio of the number of red to green marbles is 1 : 5. Find the ratio of the number of red to blue to green marbles.

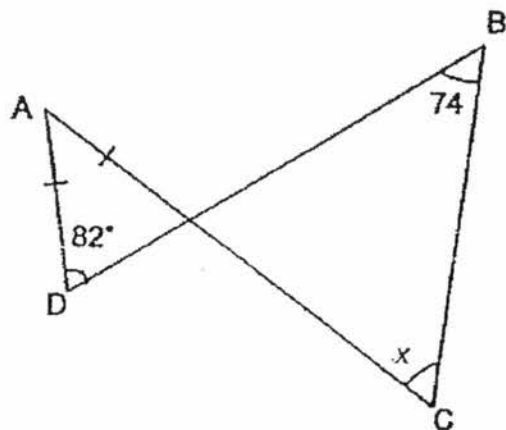
- (1) 1 : 3 : 5
- (2) 2 : 3 : 5
- (3) 2 : 3 : 10
- (4) 2 : 3 : 15

9. The figure below shows a regular hexagon. What fraction of the figure is shaded?



- (1) $\frac{1}{3}$
- (2) $\frac{1}{4}$
- (3) $\frac{1}{5}$
- (4) $\frac{1}{6}$

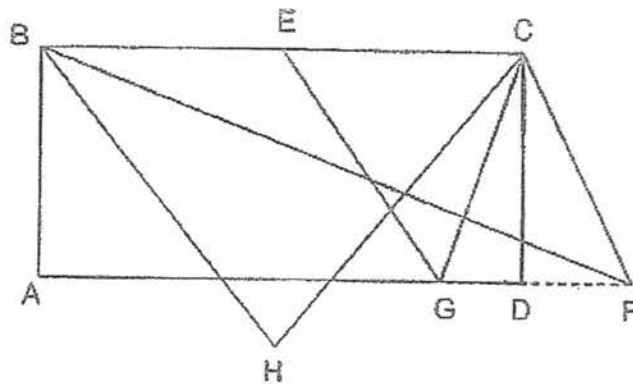
10. The figure below, not drawn to scale, is made up of 2 triangles. AC and BD are straight lines. Find $\angle x$ in the figure below.



- (1) 16°
(2) 24°
(3) 74°
(4) 82°
11. Mrs Cheah had 9 \$5-notes. She used \$18 to buy some rice and shared the remaining money among her 3 children and herself. How much did each child get?
- (1) $\$(\frac{45-18}{3})$
(2) $\$(\frac{45-18}{4})$
(3) $\$(45-\frac{18}{3})$
(4) $\$(45-\frac{18}{4})$

12. The average mass of 5 bags of rice is 35 kg. After selling one bag of rice, the average mass of the remaining bags of rice is 32 kg. What is the mass of the bag of rice that was sold?
- (1) 1.0 kg
 (2) 33.5 kg
 (3) 3.0 kg
 (4) 47.0 kg

13. The figure below shows a rectangle ABCD. Which of the following triangles has an area that is half of rectangle ABCD?



- (1) BCF
 (2) BCH
 (3) CFG
 (4) ECG
14. A cup of soda costs \$1 while a cup of juice costs \$1.50. Anna spent her money on a few cups of soda and had \$5 left. If she spends her money on the same number of cups of juice instead of soda, she would need another \$7. How many cups of soda did Anna buy?
- (1) 8
 (2) 12
 (3) 24
 (4) 4

15. The charges of a metered fare taxi are as follows:

	Rate
The first 1 km or less (Flag down)	\$3.20
Every 500 m thereafter or less	\$0.20

Mrs Low took a taxi from his house to Bedok MRT station, which is 5.2km away. How much was her taxi fare?

- (1) \$5.00
- (2) \$5.10
- (3) \$5.40
- (4) \$5.50

End of Booklet A

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SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2017

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____ ()

Class : Primary 5 SY/C/G/SE/P

Paper 1	Mark attained	Max Mark
Booklet B		25

15 Questions
25 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions.

You are not allowed to use a calculator

BOOKLET D

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)

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16. Find the difference between 3.4 and 1.75.

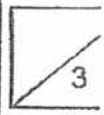
Ans: _____

17. What fraction is exactly between $\frac{1}{4}$ and $\frac{1}{6}$?

Ans: _____

18. When a number is divided by 8, the quotient is 19 with a remainder of 2. What is the number?

Ans: _____

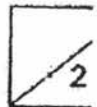
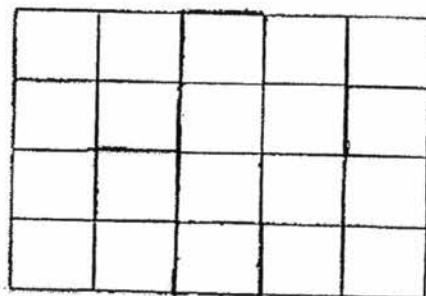
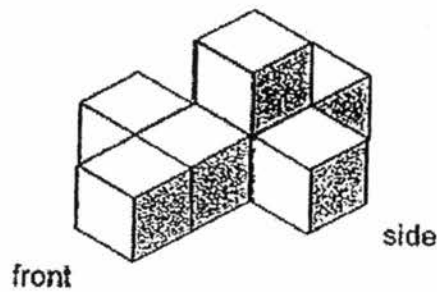


19. John can eat a sixth of a pizza in two minutes. It takes 4 minutes for Billy to eat one quarter of the same pizza. If John and Billy start eating one pizza each, who will finish first?

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in this column

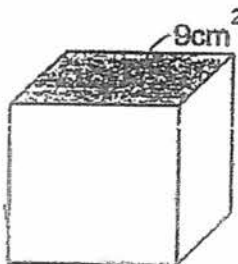
Ans: _____

20. The figure below consists of 7 identical cubes. Draw the top view of the figure below.



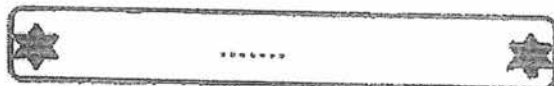
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
(20 marks)

21. The area of one face of a cube is 9 cm^2 . Find the volume of the cube.

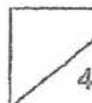


Ans: _____ cm^3

22. Jopal decorated a strip of ribbon with 4 stickers equally spaced with 20cm between them. The 1st sticker and the last sticker are shown in the picture below. What is the distance between two stickers if Jopal decides to add another sticker?

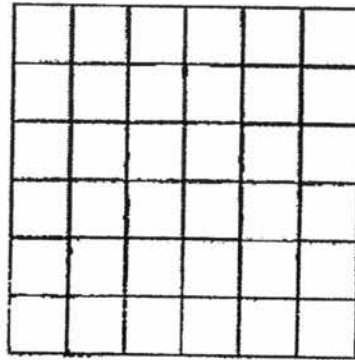


Ans: _____ cm



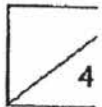
23. Draw an isosceles triangle in the grid that has an area of 10cm^2

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this column

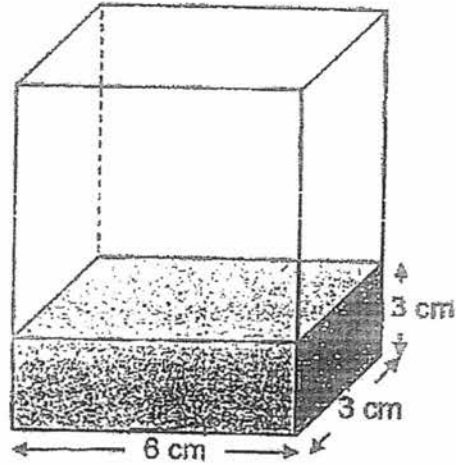


-
24. Charlie jogged $\frac{7}{12}$ of a jogging track. He walked the remaining 2 km to complete one round of the track. How long is the jogging track?
(Express your answer in km and m)

Ans: _____ km _____ m



25. The tank below is $\frac{1}{4}$ filled with water. How much more water is needed to fill the tank completely?

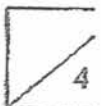


Ans: _____ cm³

26. 5 years ago, Sally's age is $\frac{1}{2}$ of Ming Li's age. Now, she is $\frac{3}{5}$ as old as her.
How old is Sally now?

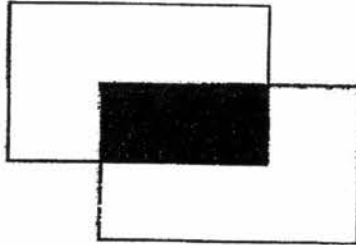
Ans: _____

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27. The figure below is made up of 2 identical rectangles overlapping with each other. The ratio of the shaded area to the area of a rectangle is 2 : 5. What percentage of the figure is unshaded?

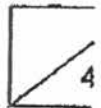
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Ans: _____ %

28. Dorothy has 5 l of Milo and wants to pour them into as many 300 ml-cups as possible. How much Milo would she have left after that?

Ans: _____ ml



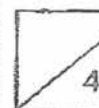
29. Wilma is thinking of a 4-digit number smaller than 9000. The 4th digit is double the 2nd digit. The sum of the 2nd digit and 4th digit gives 3rd digit. There are no repeated digits in the number and the sum of all the digits is 15. What is the number Wilma's thinking about?

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this colour

Ans: _____

30. Katrina bought an equal number of sweets and chocolates. The sweets were sold at 3 for \$2. The chocolates were sold at 4 for \$3. He paid \$5 more for the chocolates than sweets. How many chocolates did she buy?

Ans: _____



End of Booklet B

SINGAPORE CHINESE GIRLS' SCHOOL
SECOND SEMESTRAL ASSESSMENT 2017

PRIMARY 5
MATHEMATICS
PAPER 2

Name : _____ ()

Class : Primary 5

Paper 2	Mark	Max Mark	Parent's Signature
		55	

17 Questions
55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

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

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. (10 marks)

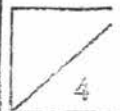
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in this column.

1. Daniel has a cousin who is 12 years older than him. His cousin is currently 4 times his age. How old will Daniel be in 5 years' time?

Ans _____ yrs

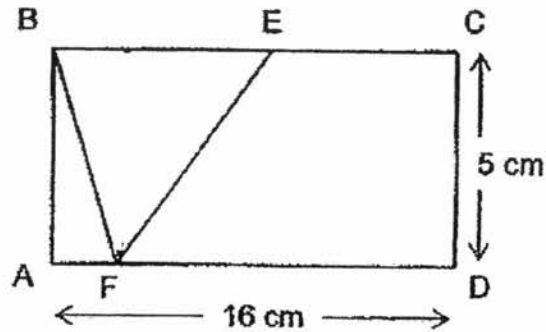
2. 80% of the pupils come to school by bus. 51 of the pupils come to school by car. The remaining 5% of the pupils walk to school. How many pupils walk to school?

Ans: _____



3. The figure below, not drawn to scale, is made up of a rectangle ABCD and a triangle BEF. The ratio of the length BC to BE is 2 : 1 . Find the area of triangle BEF.

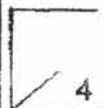
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Ans: _____ cm²

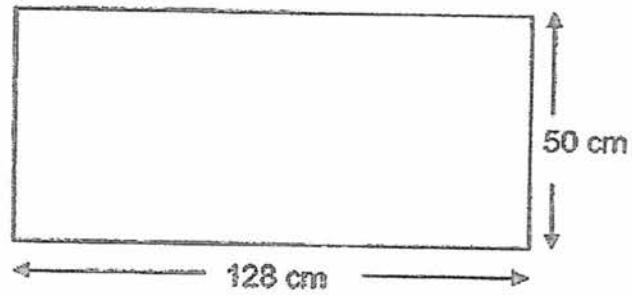
4. Mrs Tay had some cloth and decided to make a bag and some pouches. She used $\frac{3}{5}$ m of the cloth to make some pouches and $\frac{2}{3}$ of the remaining cloth on the bag. How much cloth did she have if she has 2 m of cloth left?

Ans: _____ m

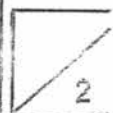


5. A piece of cloth measuring 128 cm by 50 cm is used to cut into similar rectangles with dimension 12 cm by 8 cm. What is the maximum number of rectangles that can be cut from this cloth?

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Ans: _____

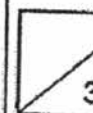


For questions 6 to 17, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [] at the end of each question or part-question. (50 marks)

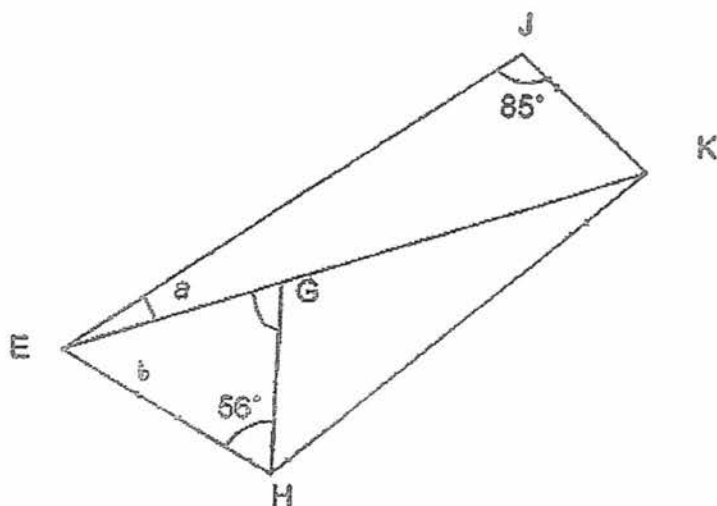
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6. Jenna and Sandy had some stickers in the ratio of 3 : 5. After Sandy gave away 42 stickers, the ratio became 2 : 1. How many stickers did Jenna have?

Ans: _____ [3]



7. The diagram below 3 triangles, not drawn to scale. EGK is a straight line. Find $\angle a$.



Ans: _____ [3]



8. Rajah accidentally spilled some drink over his result slip. How much did he score for Science?

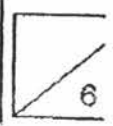
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English	87
Math	6
Science	7
Average	85

Ans: _____ [3]

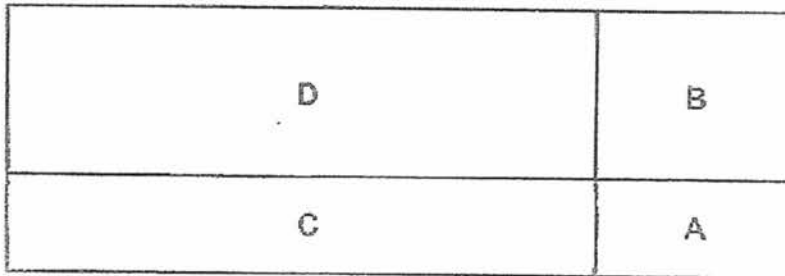
9. Joash saves \$0.80 every day. 2 weeks later, Mary started saving \$1.50 each day. How many days would Mary take for her to save the same amount of money as Joash?

Ans: _____ [3]



10. Four rectangles A, B, C and D below form a big rectangle as shown below. The areas of rectangles A, B and C are 12 cm^2 , 18 cm^2 and 30 cm^2 respectively. What is the area of rectangle D?

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this column



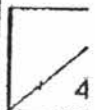
Ans: _____ [3]



11. Cailin had 1200 pens and files in her store. After she sold $\frac{1}{2}$ of her pens and $\frac{1}{4}$ of her files, she had an equal number of pens and files left. How many pens did she have at first?

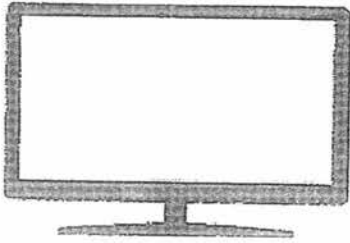
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Ans: _____ [4]



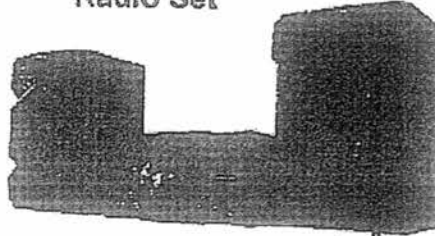
12. A shop selling electronics had a 15% discount storewide.
(a) How much did the television cost after discount?
(b) Mr Lim paid \$4437 for a radio set and a television. What was the original price of the radio set?

Television



Original price: \$3240

Radio Set



Original price



Ans: (a) _____ [2]

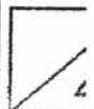
(b) _____ [2]



13. Mr Lee bought the same number of sweets and chocolates. He gave each of his students 4 sweets and had 14 sweets left. He also gave each student 6 chocolates but realised that he was short of 2. How many chocolates and sweets did Mr Lee have altogether?

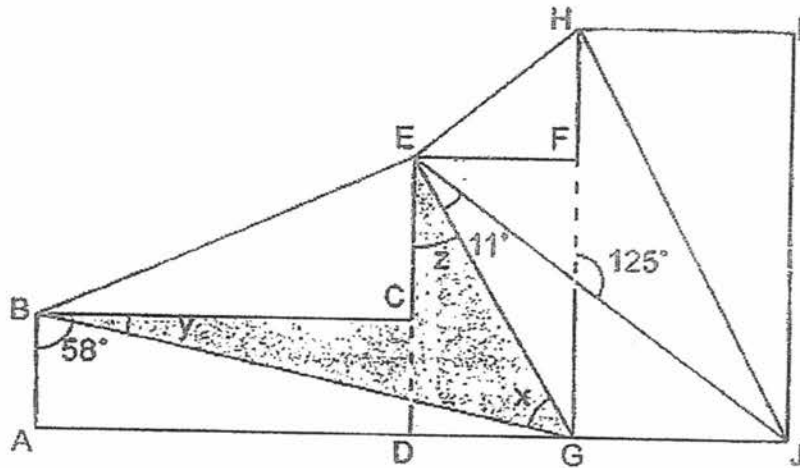
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Ans: _____ [4]



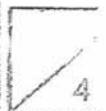
14. The figure below, not drawn to scale, consists of 3 rectangles and 2 lines BE and EH.
- (a) Find $\angle x$.
- (b) Find the sum of $\angle x$, y and z .

Do not write
in this column



Ans: (a) _____ [3]

(b) _____ [1]

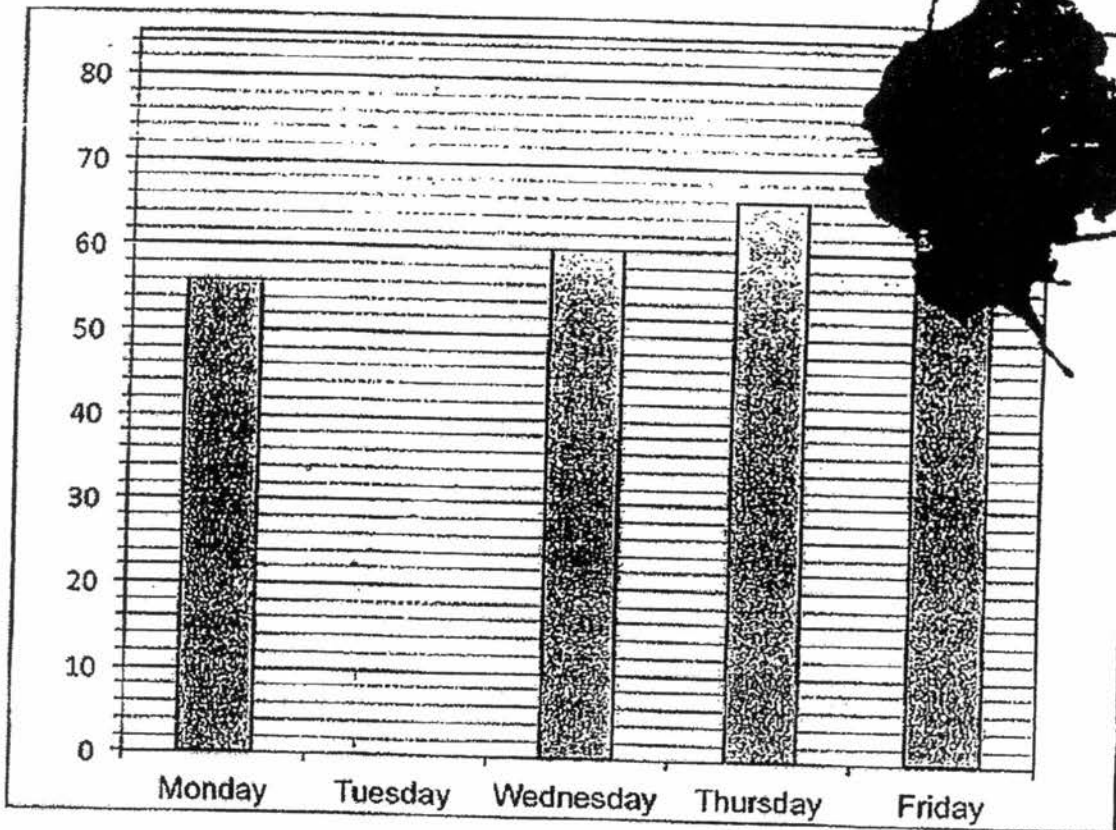


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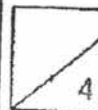
15. The bar graph below shows the number of cupcakes Wally's Bakery sold from Monday to Friday. There was a coffee stain on the bar graph.

(a) The number of cupcakes sold on Wednesday is $\frac{3}{4}$ of the number of cupcakes sold on Tuesday. Complete the bar graph for Tuesday. [2 marks]

(b) Find the number of cupcakes Wally's Bakery sold on Friday given that the average number of cupcakes sold in these 5 days is 67.



Ans: (b) _____ [2]

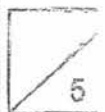


16. Pauline had some money. She spent \$29.90 and $\frac{1}{5}$ of her remaining money on some books. She then spent $\frac{3}{7}$ of what she had left on her lunch. In the end, she realised that she had $\frac{1}{3}$ of her money left.
- (a) How much money did Pauline have in the end?
(b) How many books did she buy if each book costs \$5.75?

Do not write
in this column

Ans: (a) _____ [3]

(b) _____ [2]



17. In Country ABC, the government imposes an income tax on people's yearly salary as follows:

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Income less than 30, 000	Tax
First \$15, 000	\$500
Remaining amount up to \$15,000	5% of the amount

Income more than 30, 000	Tax
First \$20, 000	\$1,000
Remaining amount up to \$10,000	7% of the amount

- (a) Mr Wong earned \$26,770 last year. How much income tax must he pay?
(b) Mr Low had to pay \$1945 of income tax. How much did Mr Low earn?

Ans: (a) _____ [2]
(b) _____ [3]

End of Paper 2

~ Please check your work thoroughly. ~

EXAM PAPER 2017 (P5)

SCHOOL : SCGS

SUBJECT : MATHEMATICS

TERM : SA2

ORDER CALL :

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

16)1.65 17)5/24 18)154 19)John 20)

21)27cm³ 22)15cm 23)

24)4km 800m

25)162cm³

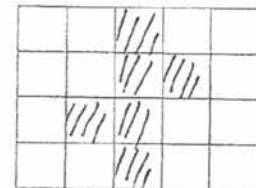
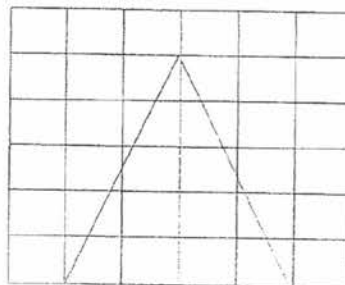
26)15 years old

27)75%

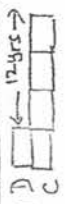
28)299ml

29)3264

30)60

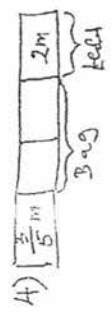


P5 Ma-Hg SA 2 Model Ans

1) D 
 1 unit — $\frac{12 \text{ yrs}}{3} = 4 \text{ yrs}$
 5 yrs' time — 4 yrs + 5 yrs = 9 yrs

2) By Car — $100\% - 80\% - 5\% = 15\%$
 15% — 51
 5% — $\frac{51}{3} = 17$ (walk)

3) B E — $\frac{1}{2} \times 16 \text{ cm} = 8 \text{ cm}$
 Area — $\frac{1}{2} \times 8 \text{ cm} \times 5 \text{ cm} = 20 \text{ cm}^2$

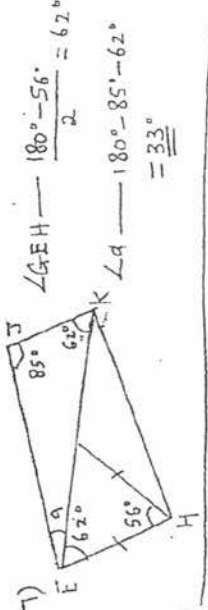


Total — $2 \text{ m} \times 3 + \frac{2}{5} \text{ m} = 6 \frac{2}{5} \text{ m}$

5) 12 cm is divisible by 8 cm
 Maximum — $\frac{12 \text{ cm} \times 48 \text{ cm}}{8 \text{ cm} \times 12 \text{ cm}} = 64 \checkmark$

Check: $\frac{120 \text{ cm} \times 48 \text{ cm}}{12 \text{ cm} \times 8 \text{ cm}} = 60 \times 4$

6) At first — $\frac{3:5}{3:5} = 2:1 = 6:3$
 In the end — $\frac{5:5}{2:1} = 6:3$
 Units — 42
 1 unit — $\frac{42}{7} = 6$
 6 units — $6 \times 6 = 36$



8) Total — $85 \times 3 = 255$
 $6 + 7A = 255 + 76$
 Missing — $255 - 87 - 76 = 92$

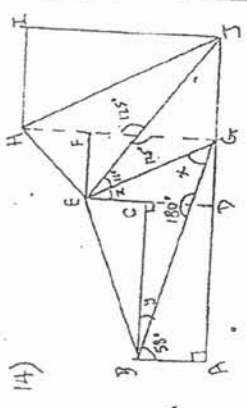
∴ Science — 72
 9) Joash saved in 2 weeks — $14 \times \$0.80 = \11.20
 Diff per day — $\$150 - \$0.80 = \$0.70$
 No. of days — $\frac{\$11.20}{\$0.70} = 16$

10) C:A D:B
 $30:12 \div 6 = 5:2$
 $45:18 = 5:2$
 Ans: 45 cm^2

11) $\frac{1}{2}$ of pens = $\frac{3}{4}$ of files
 $\frac{3}{6}$ of pens = $\frac{3}{4}$ of files
 pens — 6 units
 files — 4 units
 10 units — 1200
 1 unit — $\frac{1200}{10} = 120$
 pens (6 units) — $120 \times 6 = 720$

12) TV after discount — $\frac{85}{100} \times \$3240 = \2754
 Radio after discount (85%) — $\$4437 - \$2754 = \$1683$
 1% — $\frac{\$1683}{85}$
 100% — $\frac{\$1683}{85} \times 100 = \1980

13) No. of students — $\frac{14+2}{2} = 8$
 No. of sweets — $4 \times 8 + 14 = 46$
 Total — $46 \times 2 = 92$

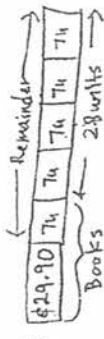


∠BGA — $90^\circ - 58^\circ = 32^\circ$
 ∠HGE — $180^\circ - 11^\circ - 125^\circ = 44^\circ$
 a) ∠x — $90^\circ - 32^\circ - 44^\circ = 14^\circ$

b) sum of ∠x, y and z — $360^\circ - 180^\circ - 90^\circ = 90^\circ$

15) $\frac{3}{4}$ of Tues — 60
 $\frac{1}{4}$ of Tues — $\frac{60}{3} = 20$
 $\frac{1}{4}$ of Tues — $20 \times 4 = 80$
 Total — $67 \times 5 = 335$

b) Fri — $335 - 56 - 80 - 60 - 66 = 73$

16) 
 $\frac{1}{3}$ of money — $1 - \frac{12}{28} = \frac{16}{28}$
 $\frac{1}{3}$ of money — 16 units
 $\frac{2}{3}$ of money — 16 units $\times 3 = 48$ units
 13 units — $\$29.90$
 1 unit — $\frac{\$29.90}{16} = \1.87
 16 units — $16 \times \$1.87 = \30.32
 7 units — $7 \times \$2.30 = \16.10
 Spent on books — $\$29.90 + \$16.10 = \$46$

b) No. of books — $\frac{\$46}{\$5.75} = 8$
 17) Remaining amt of Mr Wary — $\$26770 - \$15000 = \$11770$
 Tax of remaining amt — $\frac{5}{100} \times \$11770 = \588.50
 a) Total tax — $\$500 + \$588.50 = \$1088.50$

Mr Low
 Tax of remaining amt — $\$1945 - \$1000 = \$945$

Check if Mr Low earned more or less than \$30,000:
 Maximum tax if earned \$30,000 — $\$500 + \frac{5}{100} \times \$15,000 = \$12,500$
 ∴ Mr Low earned more than \$30,000

7% — $\$945$
 1% — $\frac{\$945}{100} = \9.45
 100% — $\$9.45 \times 100 = \945
 b) Mr Low earned — $\$20,000 + \$13,500 = \$33,500$