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
Paper 1	Booklet A		20
	Booklet B		25
Paper 2			55
Total Marks			100

Parent's Signature

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

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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 = _____.

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

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4. Arrange the following in ascending order of length:

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

(1) $\frac{1}{2}$ m, 30 0m, 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. $6\times24+5\times24+24=24\times$_____

(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

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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.

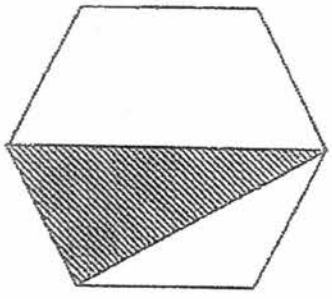
(1) 1 : 3 : 5

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

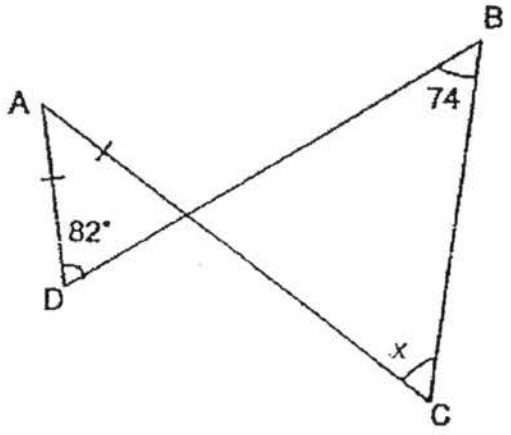
(2) $\frac{1}{4}$

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

(4) $\frac{1}{6}$

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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) $\$(45-\frac{18}{4})$

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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?

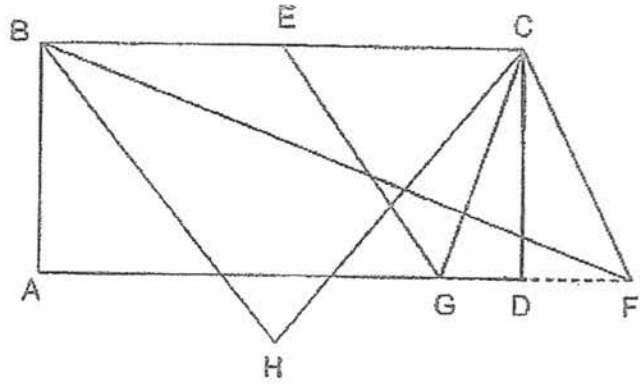
(1) 1.0 kg

(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

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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

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Booklet B

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)

Do not w this colur

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: _____

3

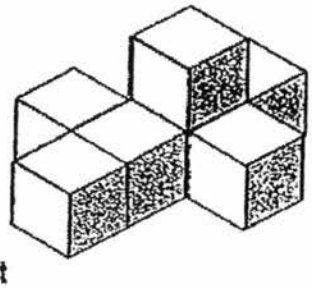
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19. John can eat a sixth of a pizza in two minutes. It takes 4 minutes for Billy to eat one quarter of the same pizza. If John and Billy start eating one pizza each, who will finish first?

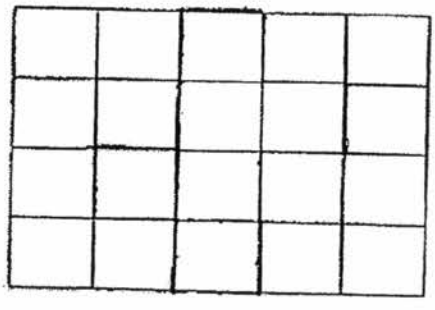
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Ans: _____

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



front side



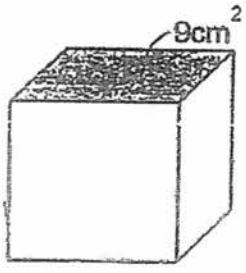
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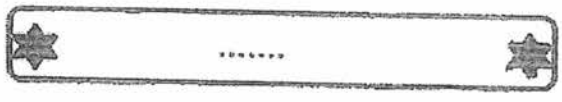
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
(20 marks)

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?



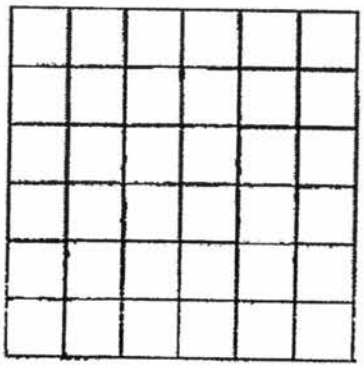
Ans: _____ cm

4

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Do not write in this column

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



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)

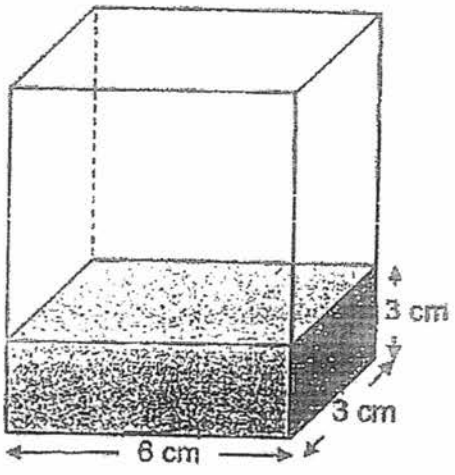
Ans: _____km _____m

4

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



Ans: _____ cm^3

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?

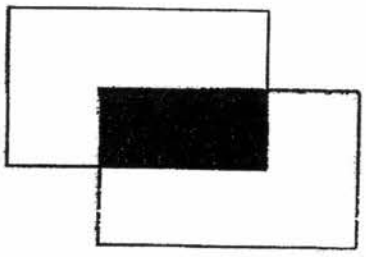
Ans: _____

4

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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?

Do not write this column



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

4

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29. Wilma is thinking of a 4-digit number smaller than 9000. The 4^{th} digit is double the 2^{nd} digit. The sum of the 2^{nd} digit and 4^{th} digit gives 3^{rd} 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?

Do not w
this colur

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: _____

4

End of Booklet B

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2017

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____( )

Class : Primary 5

	Mark	Max Mark
Paper 2		55

Parent's Signature

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.

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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)**

Do not wri this colum

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?

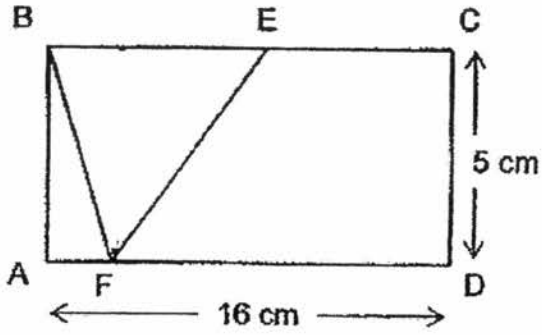
Ans: _____

4

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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.

Do not write this column



Ans: _____ cm^2

---

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

4

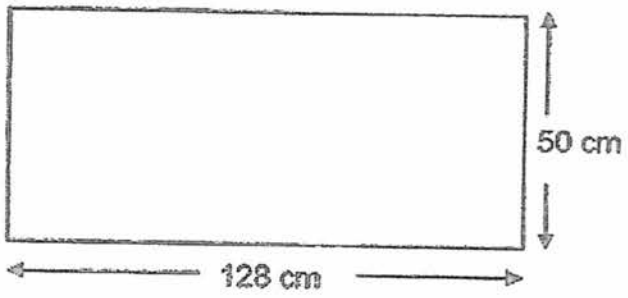
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5. A piece of cloth measuring 128 cm by 50 cm is used to cut into similar rectangles with dimension 12 cm by 8 cm. What is the maximum number of rectangles that can be cut from this cloth?

Do not write this column



Ans: _____

2

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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)**

Do not write this column

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?

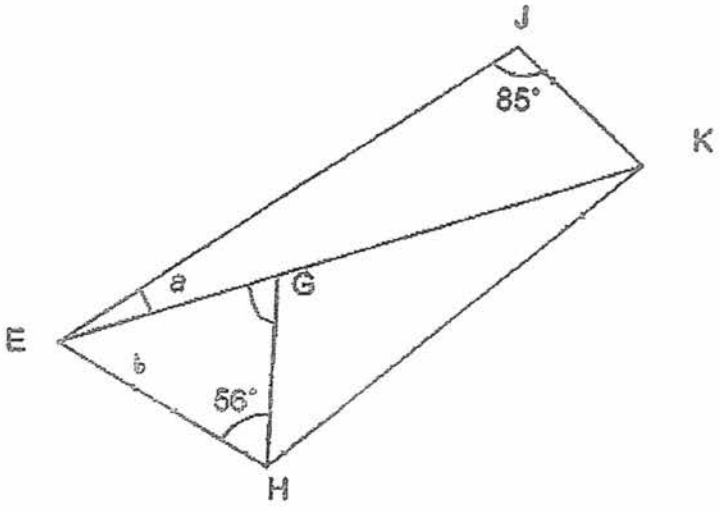
Ans: _____ [3]

3

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



3

Ans: _____ [3]

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

Do not write this column

English	87
Math	[illegible]6
Science	7[illegible]
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]

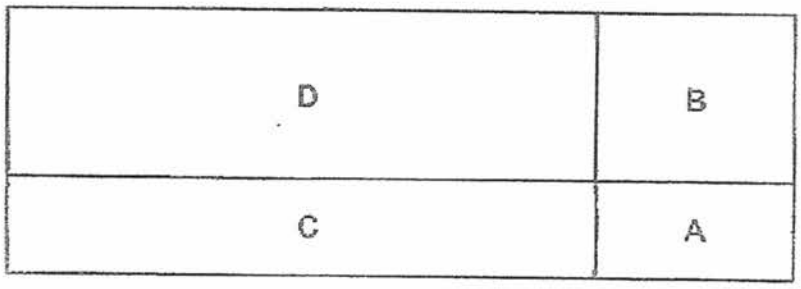
6

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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?

Do not write this column



Ans: _____ [3]

3

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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?

Do not writ this colum

Ans: _____ [4]

4

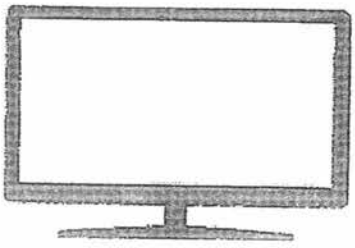
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12. A shop selling electronics had a 15% discount storewide.
(a) How much did the television cost after discount?
(b) Mr Lim paid $4437 for a radio set and a television. What was the original price of the radio set?

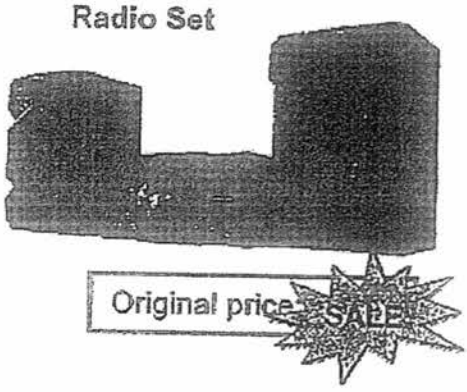
Do not wr
this colun

Television



Original price: $3240

Radio Set



Original price

Ans: (a) _____ [2]

(b) _____ [2]

4

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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?

Do not writ this columr

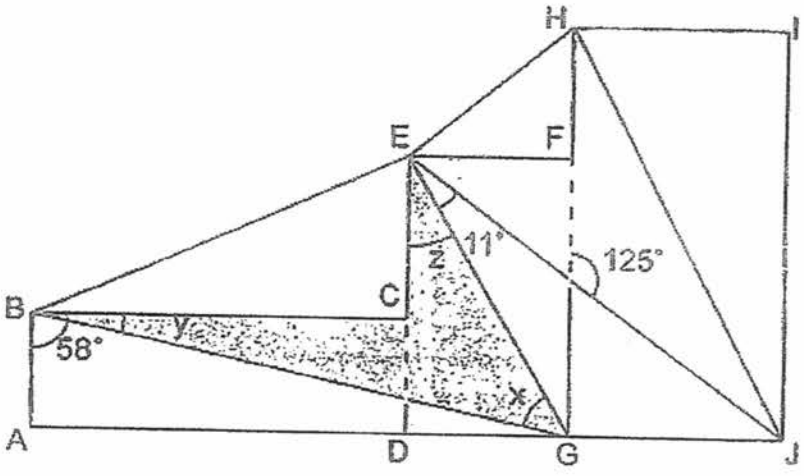
Ans: _____ [4]

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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.



Ans: (a)_____ [3]

(b)_____ [1]

4

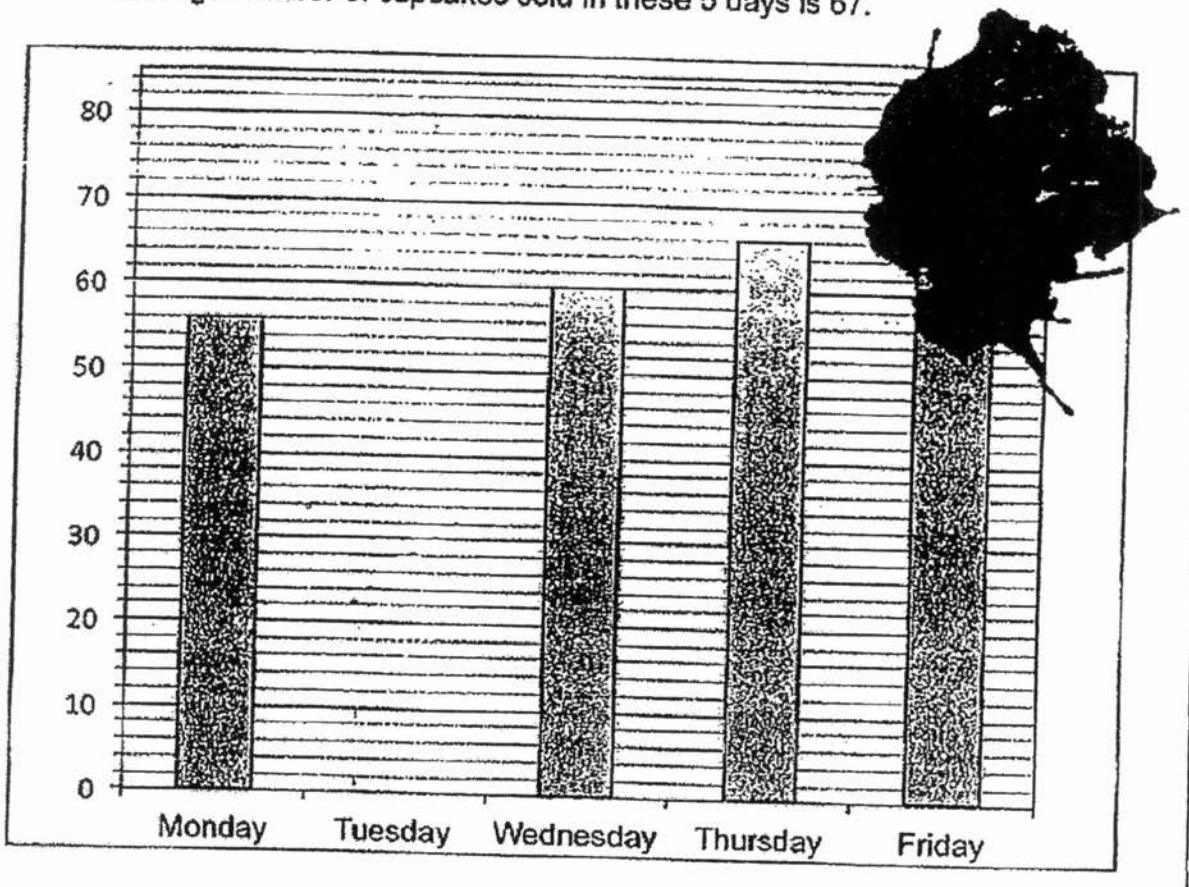
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15. The bar graph below shows the number of cupcakes Wally's Bakery sold from Monday to Friday. There was a coffee stain on the bar graph.

Do not write this column

(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]

4

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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 wri this colum

Ans: (a)_____ [3]

(b)_____ [2]

5

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

Do not write this column

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]

5

End of Paper 2

~ Please check your work thoroughly. ~

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EXAM PAPER 2017 (P5)

SCHOOL : SCGS

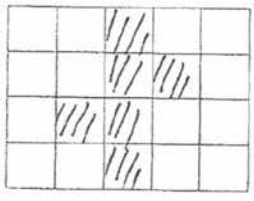
SUBJECT : MATHEMATICS

TERM : SA2

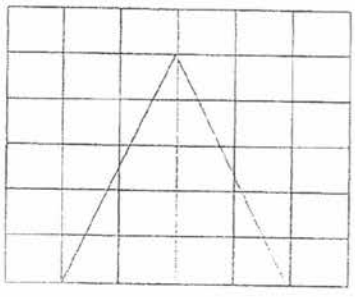
ORDER CALL :

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

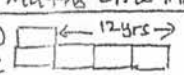
29)3264

30)60

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P5 Maths SA2 Model Ans

1) 

1 unit — $\frac{12\text{yrs}}{3} = 4\text{yrs}$

5yrs' time — 4yrs + 5yrs
= 9yrs

2) By car — 100% − 80% − 5%
= 15%

15% — 51

5% — $\frac{51}{3} = 17$
(walk)

3) BE — $\frac{1}{2} \times 16\text{cm} = 8\text{cm}$

Area — $\frac{1}{2} \times 8\text{cm} \times 5\text{cm}$
$= 20\text{cm}^2$

4) 

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

5) 128cm is divisible by 8cm

Maximum — $\frac{128\text{cm} \times 48\text{cm}}{8\text{cm} \times 12\text{cm}}$
$= 64$ ✓

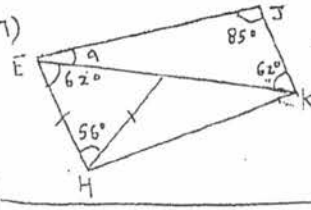
Check: $\frac{120\text{cm} \times 48\text{cm}}{12\text{cm} \times 8\text{cm}} = 60$ ✗

6)

At first	In the end
J : S	J : S
3 : 5	2 : 1
= 6 : 10	= 6 : 3

4 units

Units — 42
1 unit — $\frac{42}{7} = 6$
6 units — $6 \times 6 = 36$

7) 

$\angle GEH$ — $\frac{180° - 56°}{2} = 62°$

$\angle a$ — $180° - 85° - 62°$
$= 33°$

8) Total — $85 \times 3 = 255$

□6 + 7△ = □△ + 76
(Missing)

Missing — 255 − 87 − 76 = 92

□6 . 7△

∴ Science — 72

9) Joash saved in 2 weeks — $14 \times \$0.80$
$= \$11.20$

Diff per day — $\$1.50 - \$0.80$
$= \$0.70$

No. of days — $\frac{\$11.20}{\$0.70} = 16$

10) C : A = 30 : 12 = 5 : 2 (÷6)

D : B = 5 : 2 = 45 : 18 (×9)

Ans: 45cm^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) — $120 \times 6 = 720$

12a) TV after discount — $\frac{85}{100} \times \$3240 = \$2754$

Radio after discount (85%) — $\$4437 - \$2754$
$= \$1683$

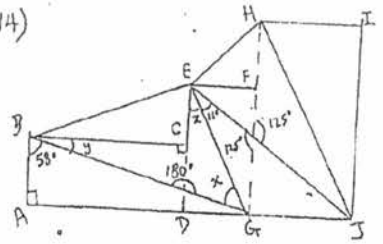
1% — $\frac{\$1683}{85}$

b) 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 — $46 \times 2 = 92$

14) 

$\angle BGA$ — $90° - 58° = 32°$

$\angle HGE$ — $180° - 11° - 125°$
$= 44°$

a) $\angle x$ — $90° - 32° - 44°$
$= 14°$

b) sum of $\angle x$, y and z
— $360° - 180° - 90°$
$= 90°$

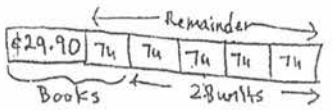
15) $\frac{3}{4}$ of Tues — 60

$\frac{1}{4}$ of Tues — $\frac{60}{3} = 20$

$\frac{4}{4}$ of Tues — $20 \times 4 = 80$

Total — $67 \times 5 = 335$

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

16) 

$\frac{3}{7} = \frac{12}{28}$

$\frac{1}{3}$ of money — $1 - \frac{12}{28} = \frac{16}{28}$

$\frac{1}{3}$ of money — 16 units

$\frac{3}{3}$ of money — 16 units × 3 = 48 units

13 units — $29.90

1 unit — $\frac{\$29.90}{13} = \$2.30$

a) 16 units — $\$2.30 \times 16 = \$36.80$

7 units — $\$2.30 \times 7 = \$16.10$

Spent on books — $\$29.90 + \$16.10$
$= \$46$

b) No. of books — $\frac{\$46}{\$5.75} = 8$

17) Remaining amt of Mr Wong — $\$26776 - \$15000$
$= \$11770$

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 $30000:

Maximum tax if earned $30000
— $\$500 + \frac{5}{100} \times \$15000$
$= \$1250$

∴ Mr Low earned more than $30000

7% — $945

1% — $\frac{\$945}{7} = \$135$

100% — $\$135 \times 100 = \$13500$

b) Mr Low earned — $\$20000 + \$13500$
$= \$33500$

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