SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2014

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( )

Class : Primary 5

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

Parent's Signature

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

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. What is 20.09 × 23 when rounded off to the nearest tenth?

   1) 460
   2) 462.0
   3) 462.1
   4) 462.3

2. Find the missing number in the box.

   $3\frac{3}{8} - \frac{3}{4} = \square$

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

3. Express 101% as a decimal.

   1) 0.101
   2) 1.1
   3) 1.01
   4) 1.001

4. Which of the following value is **closest** to $\frac{1}{5}$?

   1) 0.19
   2) 0.22
   3) 0.25
   4) 0.27

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

$$\frac{3}{6} = \frac{\square}{10}$$

(1) 5

(2) 7

(3) 8

(4) 4

6. A tank measuring 20 cm by 15 cm by 14 cm is half-filled with water. How many litres of water are there in the tank?

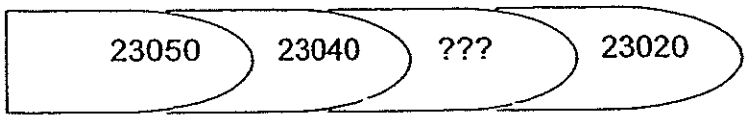
(1) 1.05 ℓ

(2) 2.1 ℓ

(3) 3.6 ℓ

(4) 4.2 ℓ

7. What is the missing number?



(1) 22030

(2) 23030

(3) 23130

(4) 24130

8. What is 899 889 less than 1 million?

1) 100 111

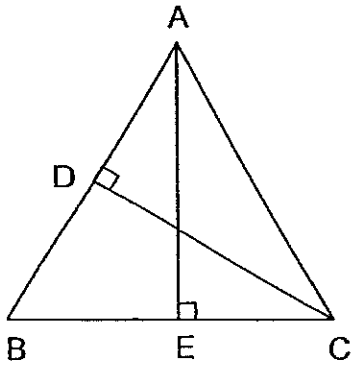
2) 101 111

3) 110 101

4) 111 111

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9. Which is the **height** to the base AB of triangle ABC?



1) AC
2) AE
3) BC
4) CD

10. Tom has 15 sweets while Jerry has 9 sweets. How many sweets does Jerry need to give to Tom such that the ratio of the number of sweets Tom has to the number of sweets Jerry has is $\frac{x}{5}$: 1?

1) 5
2) 6
3) 10
4) 4

11. The average of 3 different numbers is 10. Which is the largest possible number if the smallest number is 6?

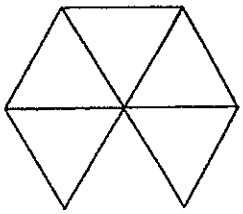
1) 10
2) 11
3) 17
4) 18

12. Which of the following has the same value as $8 \times 5 + 16 \div (4 - 2)$?

1) $40 + 2$
2) $40 + 8$
3) 8×7
4) 8×13

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13. The figure below is made up of equilateral triangles. What is the maximum number of parallelograms you can find in this figure?



(1) 6

(2) 2

(3) 8

(4) 4

14. Sandy and Paul had an equal number of stickers at first. Sandy then sold $\frac{1}{4}$ of her stickers while Paul sold $\frac{1}{3}$ of his. What is the ratio of the total number of stickers sold to the total number of stickers left?

1) 3 : 12

2) 7 : 12

3) 7 : 17

4) 17 : 24

15. Mrs Lim had 6 chocolate chip cookies and 14 blueberry cookies at first. She then decided to buy 5 more chocolate chip cookies. Express the number of cookies bought as a percentage of the total number of cookies she has now.

1) 20%

2) 25%

3) 44%

4) 55%

– End of booklet A –

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2014

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____ ( )

Class : Primary 5 S`

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions
20 Marks

Total Time for Booklets A and B: 50 min

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

Name:_____ ( ) **Class:** P5

Do not write in this column

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. **(10 marks)**

16. 4 bottles of water, 2 ℓ each, was shared among some children. How many children are there if each child received 500 mℓ?

Ans: _____

17. Write $\frac{7}{9}$ as a decimal, rounded off to 2 decimal places.

Ans: _____

18. When a number is divided by 5, the quotient is 13 and the remainder is 3. What is the number?

Ans: _____

19. 30.27 ÷ 3 =

Ans: _____

4

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20. Carrie, Devina and Farinah weigh 42 kg, 51 kg, and 39 kg respectively. What is their average weight?

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Ans: _____ kg

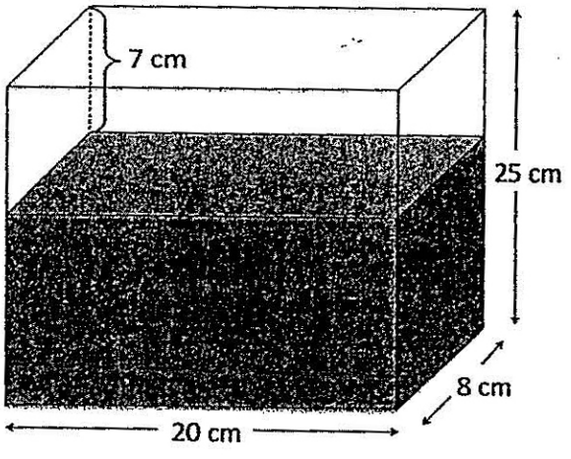
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21. Jamie and Ali shared 65 cookies in the ratio of 7 : 6 respectively. Ali ate $\frac{1}{3}$ of his cookies. How many cookies had he left?

Ans: _____

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22. Find the volume of water in this container.



Ans: _____ cm^3

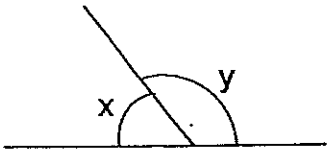
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23. In the figure, the size of $\angle x$ is $\frac{1}{5}$ of $\angle y$. Find $\angle y$.

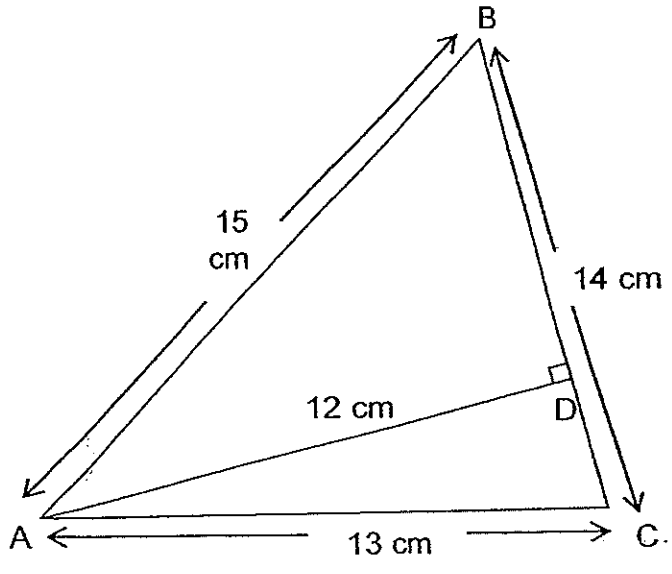


Ans: _____

24. How many 3-cm cubes can fit into a tank measuring 30 cm by 14 cm by 13 cm?

Ans: _____

25. Find the area of triangle ABC below.



Ans: _____ cm^2

3

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Questions **26** to **30** carry 2 marks each. Show your working clearly in the space 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. Ahmad had $\frac{3}{4}$ as many sweets as chocolates. He ate 5 pieces of sweets and the ratio of the number of chocolates to the number of sweets became 3 : 2. How many sweets and chocolates did Ahmad have at first?

Ans: _____

27. Jenny bought 3 sandwiches and 4 drinks. Each sandwich costs $2.25 more than a drink. How much did Jenny spend if each sandwich costs $3.50?

Ans: $_____

28. Peter, James and Simon collected a total of 315 stamps. Peter had 3 times as many stamps as Simon. James had 5 fewer stamps than Simon. How many stamps did James have?

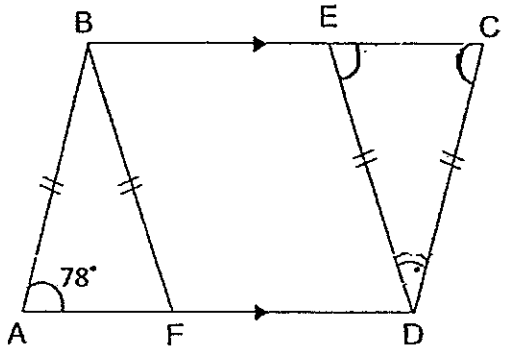
Ans: _____

6

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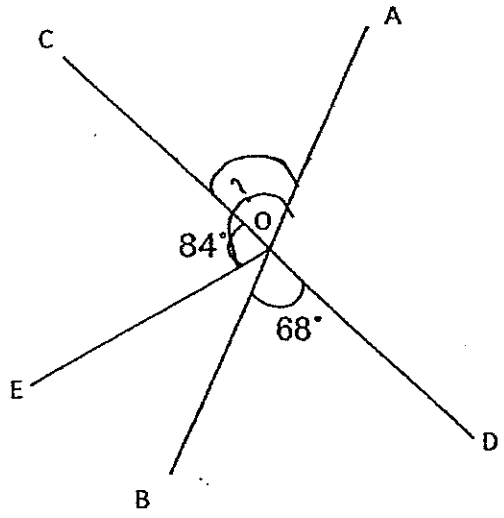
29. The figure ABCD is a parallelogram. Given that ∠BAF is 78°, find ∠EDC.



Ans: _____ °

---

30. AB and CD are straight lines. Find ∠AOE.



Ans: _____ °

End of paper
- Check your work thoroughly -

4

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2014

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____ ( )

Class : Primary 5

	Mark	Max Mark
Paper 2		60

Parent's Signature

18 Questions
60 Marks

Total Time For Paper 2: 1 h 40 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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Name: _____ ( ) Date: _____
Class: Primary 5

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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)

1. The average mass of 9 people is 58.8kg. The average mass of 3 of them is 60.4kg. What is the total mass of the remaining people?

Ans: _____ kg

2. Kellie and Qing Qing has $361 and $175 respectively. How much money does Kellie have to give Qing Qing so that they have the same amount of money?

Ans: $_____

3. Nathan has some red, blue and green marbles. 40% of the marbles ar green and 25% of the marbles are blue. How many red marbles does Nathan have if he has a total of 300 marbles?

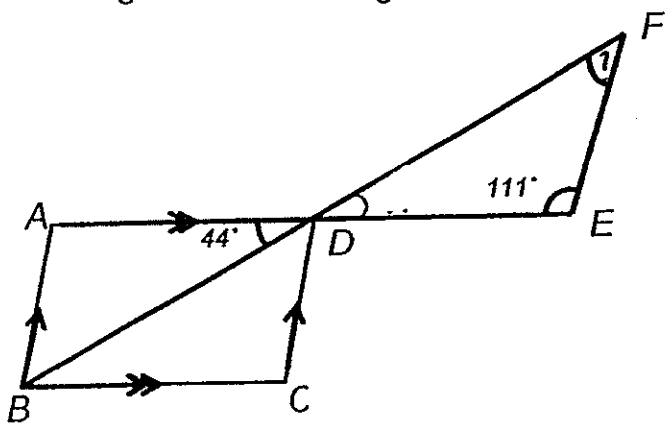
Ans: _____

6

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4. In the figure below, ABCD is a parallelogram. Lines BF and AE are straight lines. Find ∠ DFE.



Ans: _____°

---

5. Jasmine and 5 of her friends shared a pizza. Since it was her birthday, she ate $\frac{1}{4}$ more than each of her friends. What fraction of the pizza did each of her friends eat?

Ans: _____

4

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For questions **6** to **18**, 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.

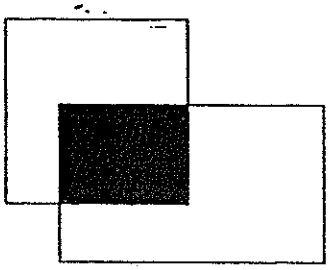
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(50 marks)

6. In a farm, the number of cows is $\frac{2}{7}$ the number of chickens. There are a total of 352 legs in the farm. How many more chickens than cows are there in the farm?

Ans: _____ [3]

7. The figure is made up of a square and a rectangle. The area of the square is $\frac{1}{3}$ that of the rectangle. The shaded area of the square is 10 cm^2. Given that $\frac{2}{3}$ of the square is shaded, what area of the rectangle that is not shaded?



Ans: _____ [3]

6

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8. On reaching a bus stop, ~~50%~~ $\frac{1}{2}$ of the females and $\frac{1}{3}$ of the males alighted from the bus. The number of females that remained on the bus was twice the number of males left on the bus. Given that 10 males remained on the bus, how many passengers were there at first?

Ans: _____ [3]

9. 3 computer labs were allocated to 4 classes for a week. Each computer lab was available for 3 hours each day. If each class spent an equal amount of time in the lab, how many hours did each class get a week? (Assume 5 days a week. Give your answer in hours and minutes.)

Ans: _____ [3]

6

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10. Jamie went shopping with $65 and saw a dress that costs $90. The dress was on a 15% Great Singapore Sale (GSS) discount. She decided to buy the dress as she had an additional 20% membership discount after the GSS discount. How much money does she have left after buying the dress?

Do not write in this column

Ans: _____ [3]

3

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11. Mrs Pang had a bag of flour. She used $\frac{1}{3}$ of it to make 10 cupcakes and $\frac{3}{4}$ of the remaining flour to make 9 pieces of bread. Given that each piece of bread needs 60 g more flour than a cupcake, how much flour did Mrs Pang have at first?

Do not write in this column

Ans: _____ [4]

4

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12. Ali, Bernard and Charlie shared some stamps. The ratio of Ali's stamps to Bernard's stamps was 1:3. After Charlie received $\frac{1}{3}$ of Ali's stamps and $\frac{1}{2}$ of Bernard's stamps, the number of stamps he had doubled to 308 stamps. How many stamps did Ali, Bernard and Charlie have altogether?

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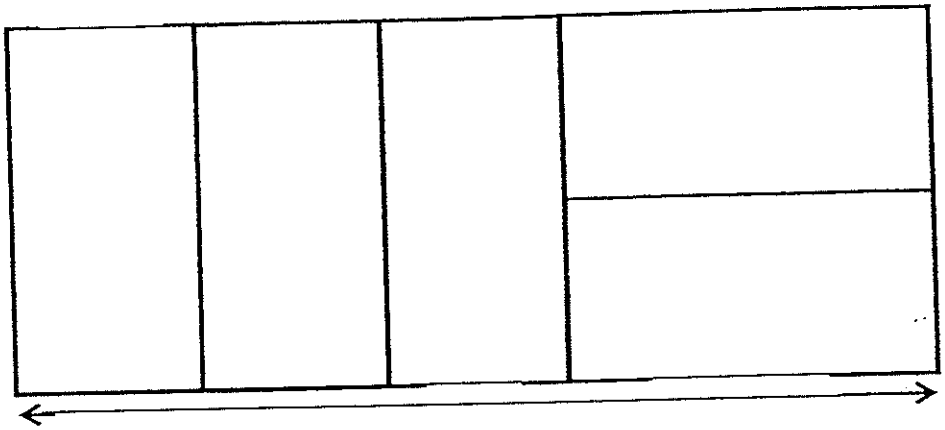
Ans: _____ [4]

4

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13. The figure below shows a field made up of 5 identical rectangular courts.



(a) What is the ratio of the length to the breadth of the field? (2 marks)
(b) Find the area of the field. (2 marks)

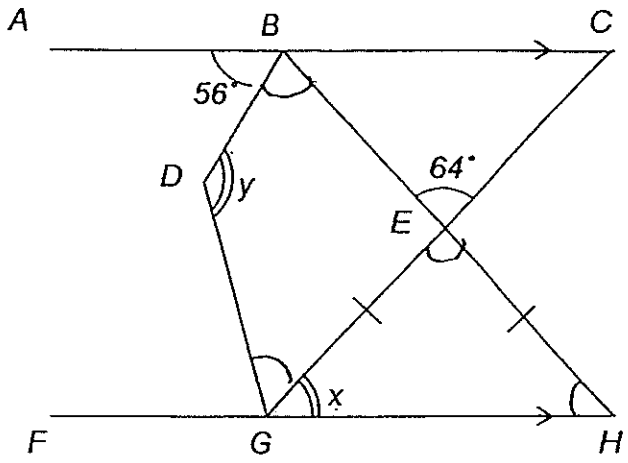
Ans: (a)_____ [2]

(b) _____ [2]

4

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14. In the figure below, line AC is parallel to line FH. Line GC cuts ∠DGH into half. Given that ∠ABD=56° and ∠BEC = 64°, find:
(a) the value of ∠x and
(b) the value of ∠y.



Do not write in this column

Ans: (a) _____ [2]

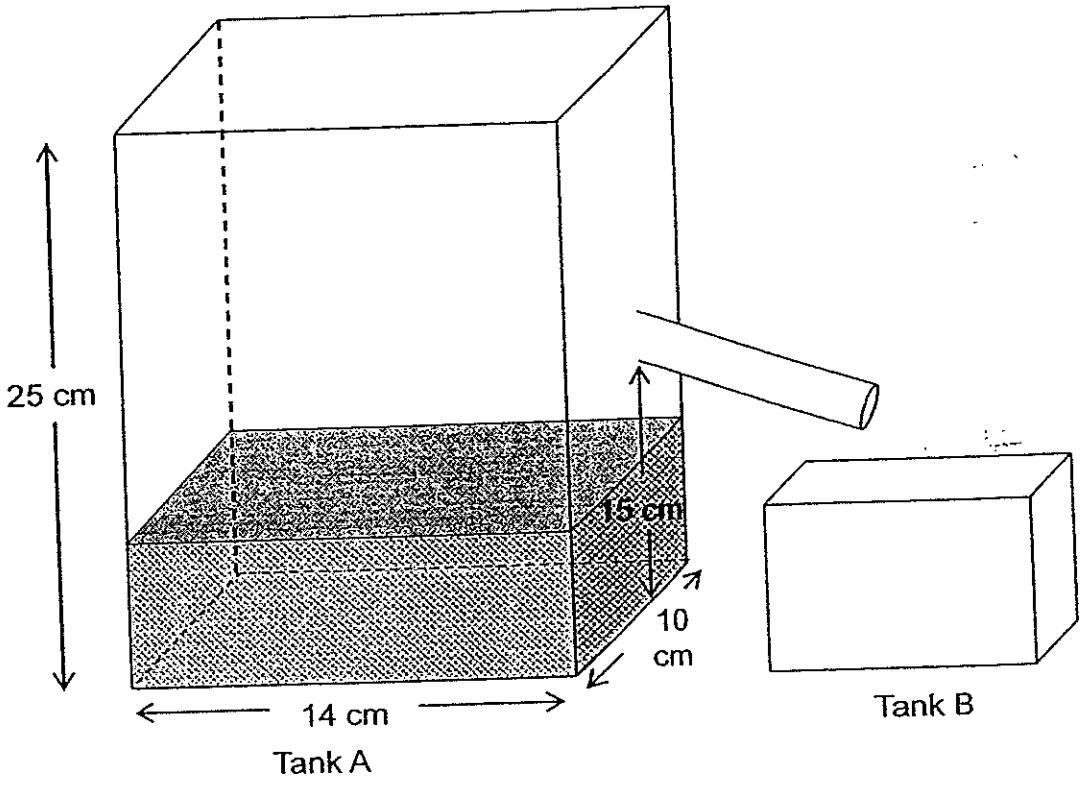
(b) _____ [2]

4

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15. Tank A is 14 cm by 10 cm by 25 cm and is $\frac{2}{5}$-filled with water. There is an opening at a height of 15 cm that allows water to flow into Tank B. If 7 cups of water, each having a volume of 110 cm^3, are added into Tank A, how much water will flow into Tank B? (Express your answer in cm^3)



Ans: _____ [4]

4

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16. There was a concert held at Esplanade concert hall and a total of $9100 was collected from the sale of tickets. Each adult ticket cost $35 and each child ticket costs $\frac{2}{5}$ as much as an adult ticket. Given that $\frac{3}{7}$ of the audience were children and the concert hall was fully packed, what is the seating capacity of the concert hall?

Do not write in this column

Ans: _____ [5]

5

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Do not write in this columnDo

17. Study the pattern below.

							Sum
Row 1:			1				1
Row 2:			1	1			2
Row 3:		1	2	1			
Row 4:		1	3	3	1		
Row 5:	1	4	6	4	1		
Row 6:	1	5	10	10	5	1	

(a) What is the largest number in row 6 ?(1 mark)
(b) What is the sum of the numbers in row 6? (2 marks)
(c) Which row has a sum of numbers of 1024? (2 marks)

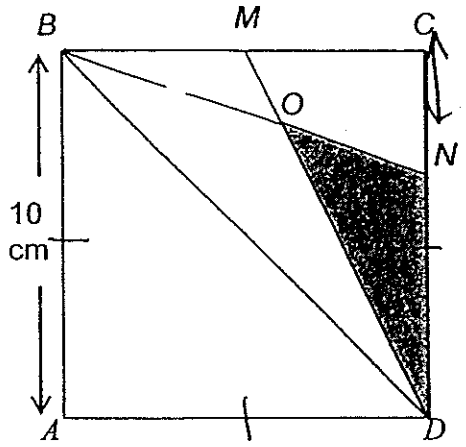
Ans: (a)_____ [1]
(b) _____ [2]
(c) _____ [2]

5

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18. The figure below shows a square ABCD. BN and MD are straight lines. The length of square ABCD is 10 cm and the length DN is 3 times of line CN. Given that M is the midpoint of line BC and the area of triangle BMO is 5 cm^2, find the area of the shaded triangle DNO.

Do not write in this column



Ans: _____ [5]

End of Paper
- Check your work thoroughly -

5

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EXAM PAPER 2014
LEVEL : PRIMARY 5
SCHOOL : SCGS
SUBJECT : MATHS
TERM : SA2

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

Q16 16

Q17 0.78

Q18 68

Q19 10.09

Q20 44kg

Q21 20

Q22 $2880cm^3$

Q23 150^o

Q24 160

Q25 $84cm^2$

Q26 105

Q27 $15.50

Q28 59

Q29 24^o

Q30 152^o

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Q1 Total mass for 9 people = 58,8kg x 9 = 529.2kg
Total mass of 3 people = 60.4kg x 3 = 181.2kg
Total mass of remaining people = 529.2kg – 181.2kg = **348kg**

Q2 $361 - $175 = $186
$186 ÷ 2 = **$93**

Q3 20 units → 300
1 unit → 15
2 units + 5 units = 7 units
20 units – 7 units = 13 units
13 units → 15 x 13 = **195**

Q4 44° + 111° = 155°
∠DEF → 180° – 155° = **25°**

Q5 J : F
5 : 4

4 x 5 = 20
20+5 = 25
Fraction of pizza each friend ate $\frac{4}{25}$

Q6

c4) cows : chickens (2)
2 : 7
352 legs

4x2=8
7x2=14
1 group → 8+14=22
no. of groups → 352÷22=16
7-2=5
more → 16x5=80

Q7 2 units → 10cm^2
1 units → 5 cm^2
3 units → 15cm^2 (Area of square)
15 x 3 = 45cm^2 (Area of rectangle)

9 units → 45cm^2
9 units – 2 units = 7 units (Unshaded area of rectangle)
7 units → **35cm^2**

Q8 Female : Male
2 : 1
(20) (10) → (remained on bus)
40 30 → (on the bus at first)

40 + 30 = **70** (Total passengers at first)

Q9 3x3 =9
9x5 = 45
45 hours = 2700 mins
2700mins ÷ 4 = 675 mins
675 mins = 11hrs 15mins

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Q10 100% - 15% = 85%

$\frac{85}{100}$ x \$90 = \$76.50

100% - 20% = 80%

$\frac{80}{100}$ x \$76.50 = \$61.20

\$65 - \$61.20 = **\$3.80**

Q11 9 ÷ 3 = 3

3 bread = 5 cupcakes

3x60g + 3 cupcakes = 5 cupcakes

2 cupcakes = 180g

5 cupcakes = 450g (1unit)

6 units → 450 x 6 = **2700g = 2.7kg**

Q12 A : B : C

1 : 3 (308)

3 : 9

1 : 4.5 : (1+4.5)

308 ÷ 2 = 154

5.5 units → 154

154 + 308 = **462**

Q13 (a) **The ratio is 5 : 2**

(b) 5 units → 45cm

1 unit → 9cm

2 units → 18cm

Area of field = 45cm x 18cm

= **810cm²**

Q14 (a) 180° – 64° = 116°

∠ x = 116° ÷ 2 = **58°**

(b) $\angle BEG$ = 180° – 64° = 116°

$\angle DBE$ = 180° – 56° – 58° = 66°

58° + 116° + 66° = 240°

$\angle y$ = 360° – 240° = **120°**

Q15 Volume of tank = 14cm x 10cm x 25cm = 3500cm³

Volume of water = $\frac{2}{5}$ x 3500cm³ = 1400cm³

Volume of water (7 cups) = 7 x 110cm³ = 770cm³

Total Volume of water = 1400cm³ + 770cm³ = 2170cm³

Volume of tank to the opening = 14cm x 10cm x 15cm = 2100cm³

Volume of water flow to tank B = 2170cm³ – 2100cm³ = 70cm³

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Q16

1A → $35

1C → $\frac{2}{5} \times \$35 = \$14$

C : A

3 : 4

C → $14 × 3 = $42

A → $35 × 4 = $140

1 group → $140 + $42 = $182

No. of groups → $9100 ÷ $182 = 50

4u + 3u = 7u

Capacity → 7u → 50 × 7 = 350

Q17

		Sum
Row 1	1	1
Row 2	1 1	2
Row 3	1 2 1	4
Row 4	1 3 3 1	8
Row 5	1 4 6 4 1	16
Row 6	1 5 10 10 5 1	32
Row 7	1 6 15 (20) 15 6 1	64
Row 8	1 7 21 35 35 21 7 1	128
Row 9		256
Row 10		512
Row 11		1024

(a) The largest number is 20

(b) The sum is 64

(c) Row 11

Q18

3u + 1u = 4u

4u → 10 cm

1u → 10 cm ÷ 4 = 2.5 cm

$\triangle BMC$ → $\frac{1}{2} \times 10 \times 2.5\text{cm} = 12.5\text{cm}^2$

10 cm ÷ 2 = 5 cm

$\triangle MCP \rightarrow \frac{1}{2} \times 5\text{cm} \times 10\text{cm} = 25\text{cm}^2$

$25\text{cm}^2 - 12.5\text{cm}^2 = 12.5\text{cm}^2$

Shaded triangle → $5\text{cm}^2 + 12.5\text{cm}^2 = 17.5\text{cm}^2$

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