Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2018)
PRIMARY 5
MATHEMATICS
PAPER 1
Booklet A

Monday   **29 October 2018**   **1h**
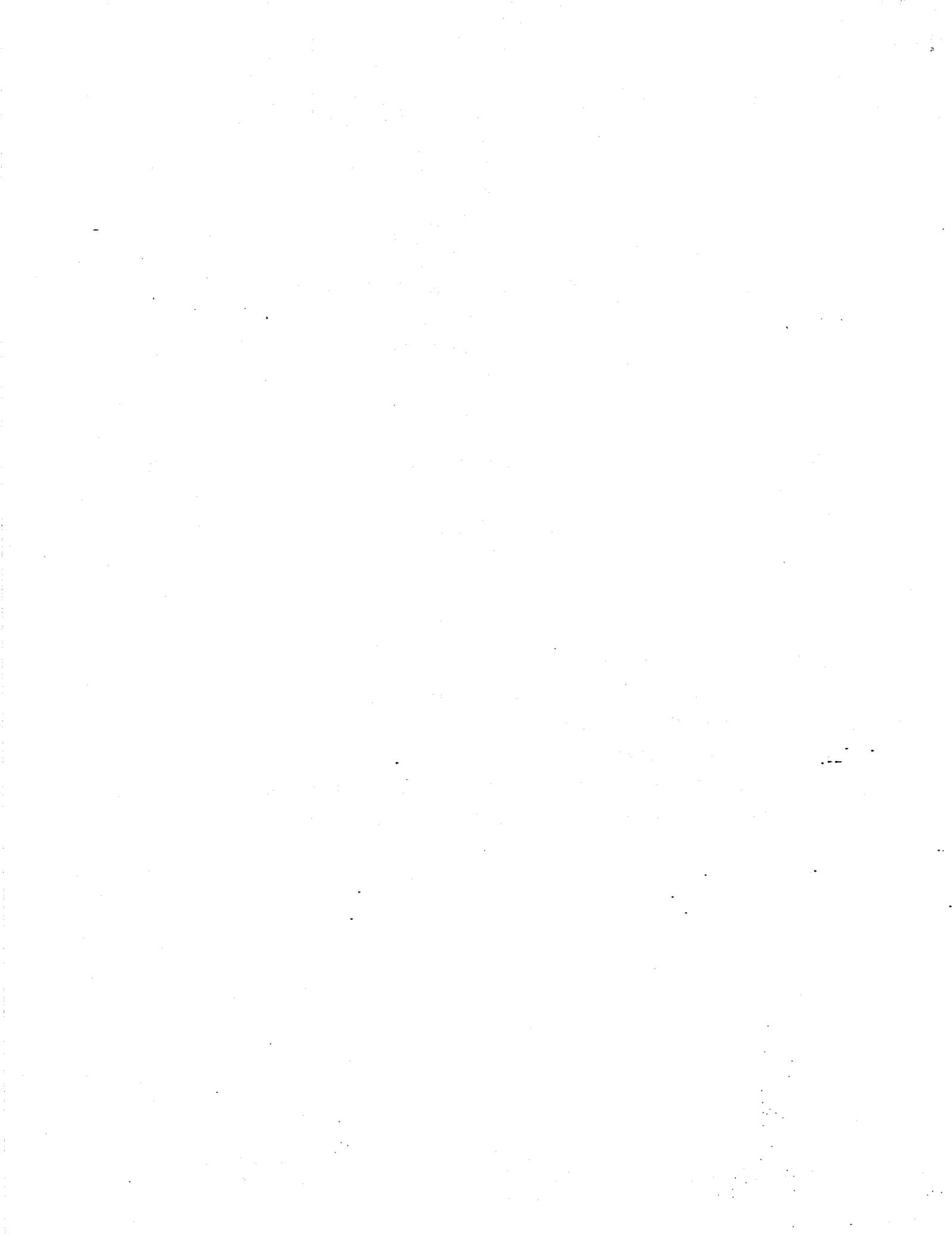
Name: _____ (   )   Class: 5.(   )

INSTRUCTIONS TO PUPILS

1   Do not turn over the pages until you are told to do so.

2   Follow all instructions carefully.

3   Answer ALL questions.

4   Shade your answers in the Optical Answer Sheet (OAS) provided.

5   You are **not** allowed to use a calculator for this paper.

This question paper consists of 8 printed pages (inclusive of cover page).

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 (OAS).   (20 marks)

1.   How many thousands are there in 3100 000?

    (1)   31
    (2)   310
    (3)   3100
    (4)   31000

2.   What is the sum of the 1st and 2nd multiples of 8?

    (1)   16
    (2)   24
    (3)   32
    (4)   40

3.   Which one of the following fractions is smaller than $\frac{1}{2}$?

    (1) $\frac{6}{11}$

    (2) $\frac{7}{13}$

    (3) $\frac{9}{19}$

    (4) $\frac{11}{20}$

4. How many fifths are there in $3\frac{6}{10}$?

    (1)   6
    (2)   18
    (3)   21
    (4)   36

5. A number when rounded to the nearest tenth is 5.0. Which of the following is the number?

    (1)   4.898
    (2)   4.945
    (3)   5.046
    (4)   5.196

6. $0.600 \times 800 = 0.300 \times 100 \times$ [ ]

    What is the missing number in the box?

    (1)   2
    (2)   6
    (3)   8
    (4)   16

7. The table shows the water consumption by the Quah's family from August to December. What is their average water consumption from August to December?

Month	August	September	October	November	December
Amount of water used (m^3)	13.0	9.6	10.2	8.0	9.2

    (1) $9.5 \, m^3$

    (2) $10.0 \, m^3$

    (3) $12.0 \, m^3$

    (4) $60.0 \, m^3$

8. Arrange these units of measurement from the longest to the shortest:

685 cm,	0.685 km,	68.5 m

	Longest				Shortest
(1)	0.685 km	,	685 cm	,	68.5 m
(2)	0.685 km	,	68.5 m	,	685 cm
(3)	68.5 m	,	0.685 km	,	685 cm
(4)	68.5 m	,	685 cm	,	0.685 km

9. AOB, COD and EO are straight lines. What is the sum of ∠p and ∠q?
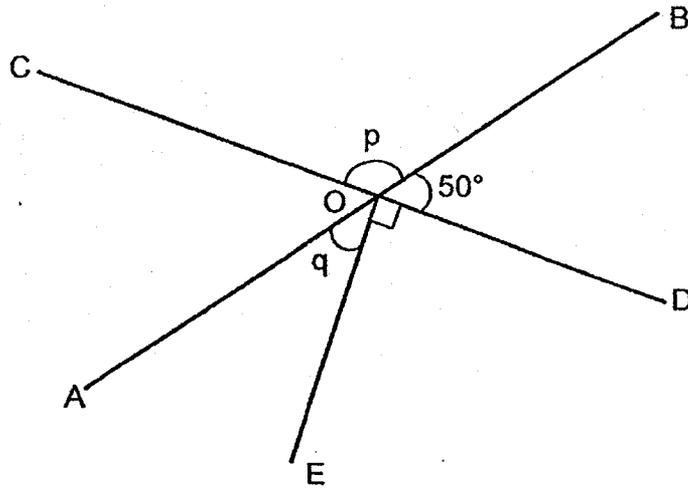
(1) 130°
(2) 140°
(3) 170°
(4) 220°

10. Express 0.12 as a percentage.

(1) $\frac{12}{100}$ %

(2) $\frac{3}{25}$ %

(3) 1.2 %

(4) 12 %

11. Ms Lee has a 400 stickers in three colour yellow, orange and blue. $\frac{3}{10}$ of the stickers are yellow, $\frac{1}{4}$ of the stickers are orange and the rest are blue. How many blue stickers did Ms Lee have ?

   (1)   100

   (2)   120

   (3)   160
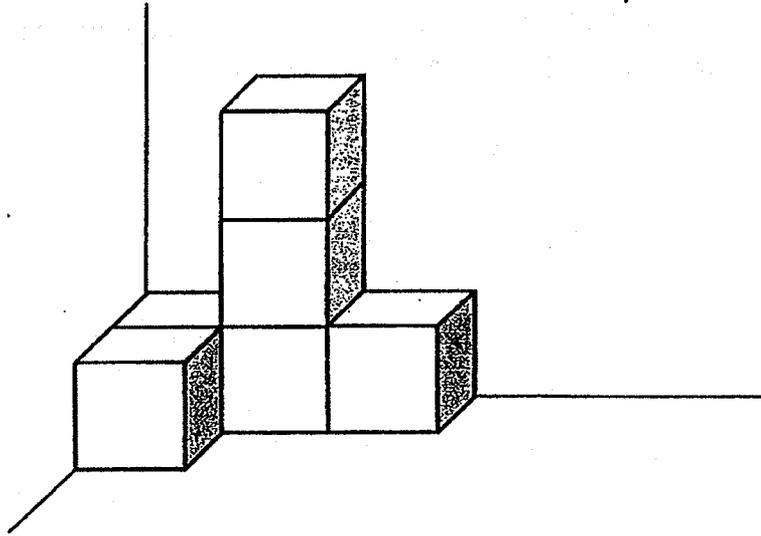
   (4)   180

12. A telecommunications company charges the following rates for talk time.

The first minute	$0.20
For every additional 20s or part thereof.	$0.05

What will be the charge for a call that lasts for 4 minutes 10 seconds?

   (1) $0.70
   (2) $0.65
   (3) $0.50
   (4) $0.40

13. The solid below is made up of 1-cm cubes. How many more 1-cm cubes must be added to make the solid into a 3-cm cube?

   (1)   6

   (2)   9

   (3)   21

   (4)   27

14. The sum of two numbers is 43.2. The larger number is 8 times the smaller number. What is the larger number?

   (1)   25.6

   (2)   35.2

   (3)   37.8

   (4)   38.4

15. Kenny had a piece of paper in the shape of an equilateral triangle. He folded it along the dotted line as shown below. Find ∠x.
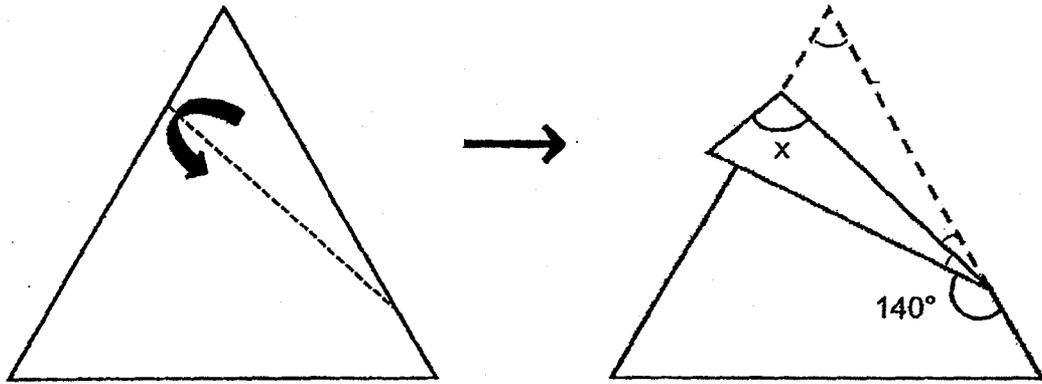
(1)   80°
(2)   100°
(3)   120°
(4)   140°

End of Booklet A

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2018)
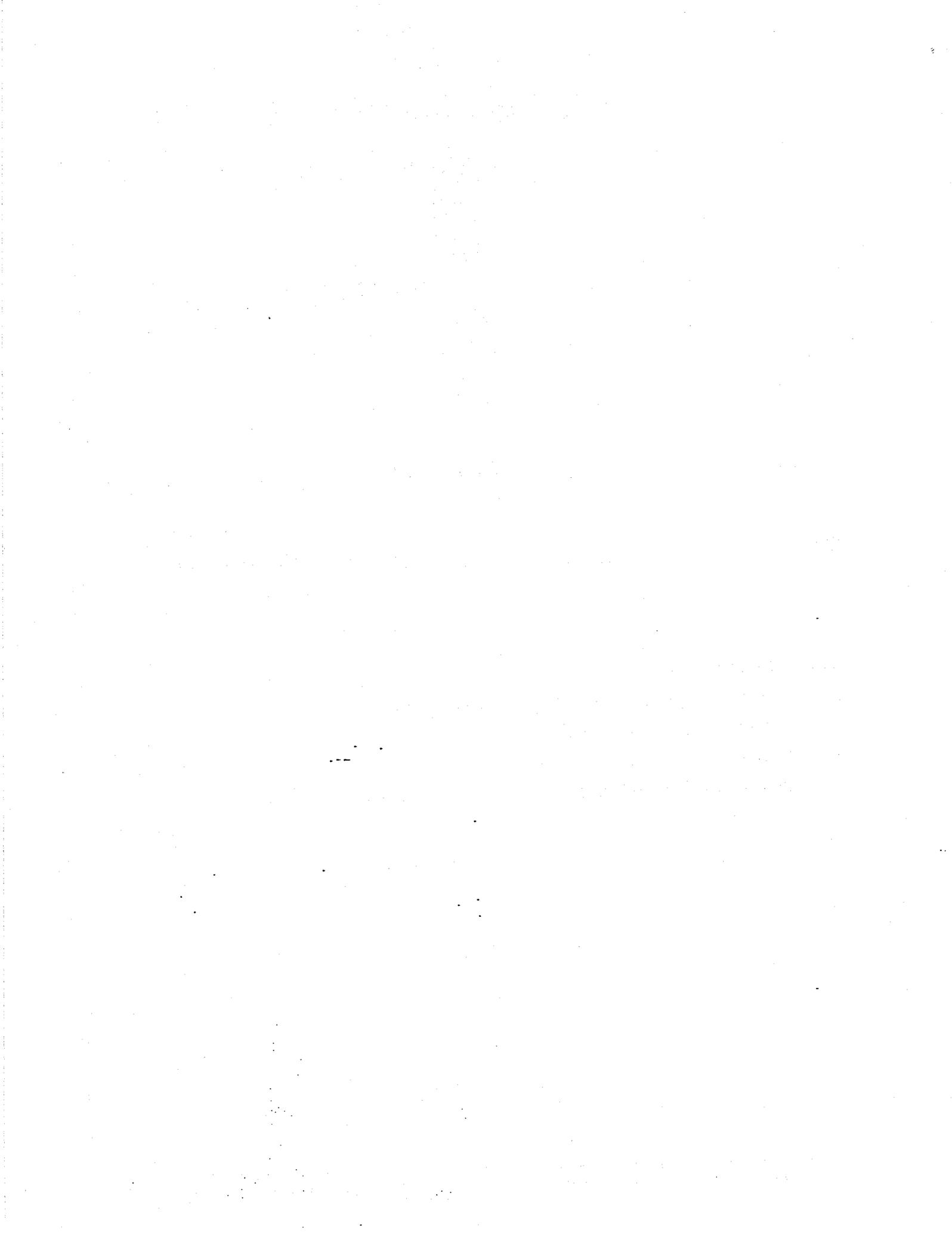### PRIMARY 5
MATHEMATICS
PAPER 1
Booklet B

Monday   **29 October 2018**   **1h**

Name: _____ (   )   Class: 5.(   )

INSTRUCTIONS TO PUPILS

1   Do not turn over the pages until you are told to do so.

2   Follow all instructions carefully.

3   Answer ALL questions.

4   You are **not** allowed to use a calculator for this paper.

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.   Find the value of $200 \div 8 \times (6 - 3) + 5$.

Ans: _____

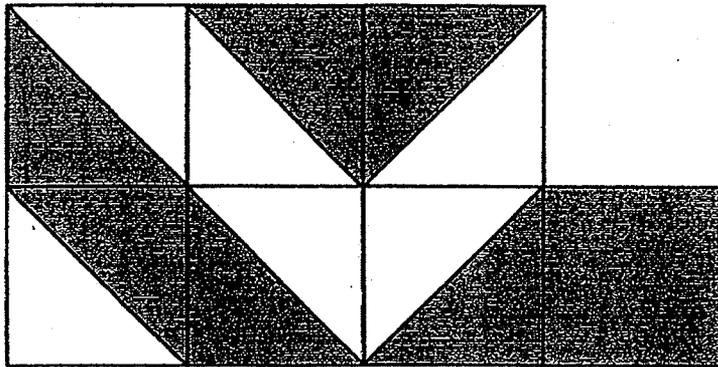17.   Express $\dfrac{2}{7}$ as a decimal. Correct your answer to 2 decimal places.

Ans: _____

18.   A movie started at 10.50 a.m. and ended at 1.25 p.m. How long did the movie last? Give your answer in h and min
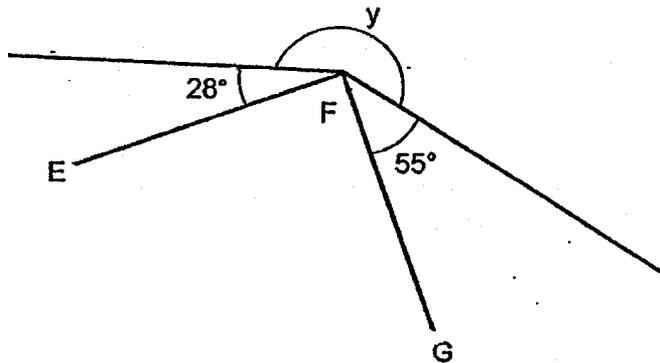
Ans: _____ h _____ min

Sub-Total :

19. Find the ratio of the number of shaded parts to unshaded parts in the figure below.

Ans: _____

20. In the diagram below, EF is perpendicular to FG. Find ∠y.

y

28°

F

E

55°

G

Ans: _____ °

Sub-Total :

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. Andrew wants to buy a camera which costs $1040. He has $50 now. If he saves $90 each month, in how many months will he be able to buy the camera?
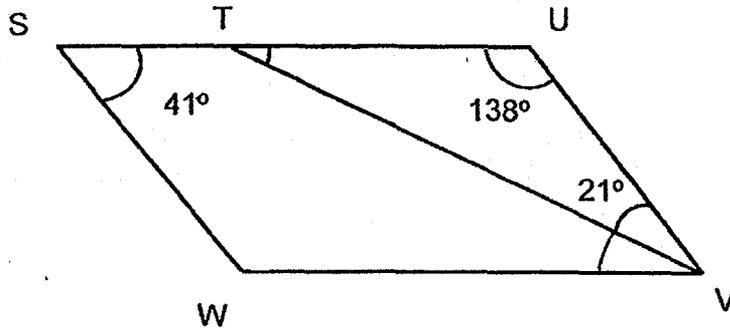
Ans: _____

22. Madam Tan had 10 kg of rice. After packing the rice equally into 8 identical containers, she had 800 g of rice left. Find the mass of the rice in each container. Leave your answer in kilograms.

Ans: _____ kg

Sub-Total:

23. Figure SUVW (not drawn to scale) shown below is a quadrilateral. SU is parallel to WV.

S   T   U

41°   138°

21°

W   V

Each statement below is either true, false or not possible to tell from the information given above. For each statement, put **one** tick (✓) in the correct column.

	Statement	True	False	Not possible to tell
(a)	TUV is an isosceles triangle			
(b)	SUVW is a parallelogram			

24. A pair of sneakers cost $120. Eddie bought the pair of sneakers at a 20% discount. How much did he pay for the pair of sneakers?

20% Storewide SALE!

Ans: $ _____

Sub-Total :

25. The table below shows the number of candies Mike and Ramli have.

	Sour	Frizzy	Total
Mike	18	6	
Ramli		19	36

(a) Complete the table above. [1]

(b) What percentage of Mike's candies are Sour flavoured?

Ans: (b) _____ [1]

26. Mrs Lim had $\frac{3}{4}$ kg of sugar. She used $\frac{1}{8}$ kg of it to make some cupcakes and $\frac{3}{10}$ of the remaining sugar to bake some muffins. How many kilograms of sugar did she use to make the muffins?
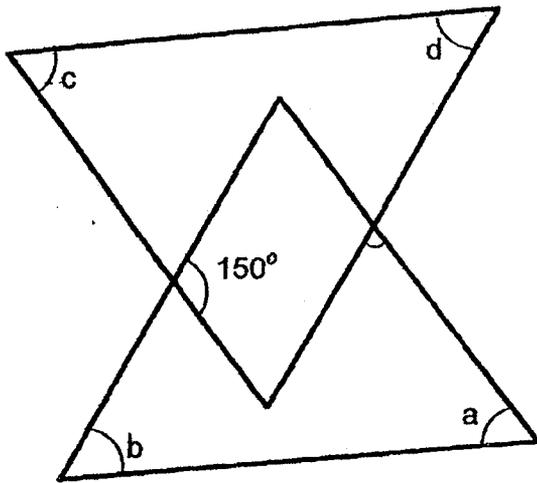
Ans: _____ kg

Sub-Total :

27. The mass of a box and some apples is 460 g. The mass of the same box with some oranges is 940 g. Given than the mass of all the oranges is 3 times the mass of all the apples, find the mass of the box. Leave your answer in grams.

Ans: _____ g

28. In the grid below, complete the square ABCD with the given line AB.

Sub-Total :
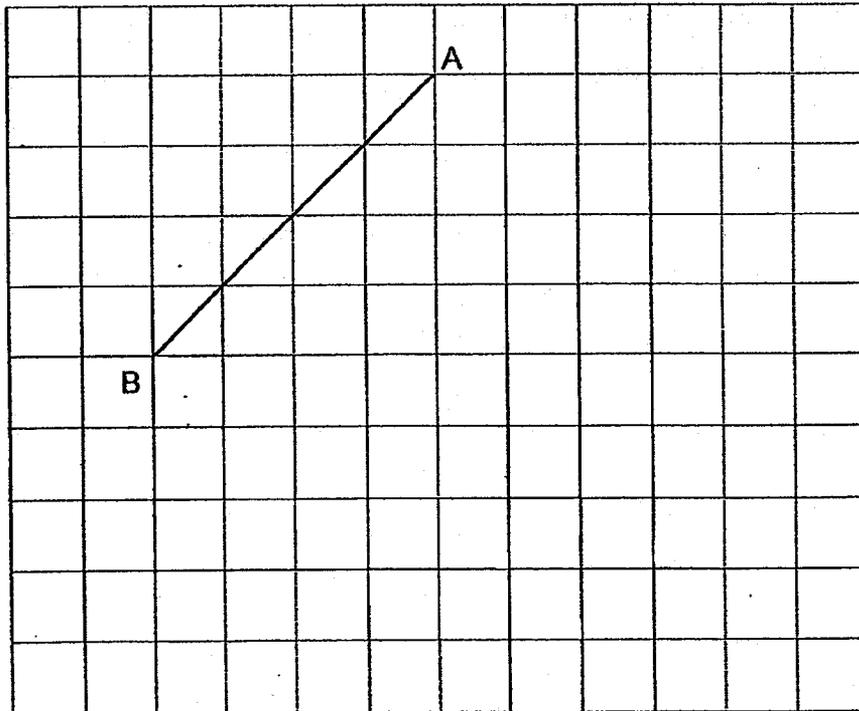
29.   In the figure below, find the sum of ∠a, ∠b, ∠c and ∠d.

Ans:_____ °

30.   Tap A can fill a 600ℓ tank with water in 2 hours. Tap B can fill the same tank with water in 3 hours. Both taps are turned on at the same time to fill up the tank. What fraction of the tank is filled up when both taps are turned on for 1 hour?

Ans:_____

End of Booklet B

Sub-Total :

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2018)
PRIMARY 5
MATHEMATICS
PAPER 2

**Monday**   **29 October 2018**   **1 h 30 min**

Name:_____ (   ) Class: 5.(   ) Parent's Signature:_____

INSTRUCTIONS TO PUPILS

1   Do not turn over the pages until you are told to do so.

2   Follow all instructions carefully.

3   Answer ALL questions.

4   You can use a calculator for this paper.

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

This question paper consists of 14 printed pages (inclusive of cover page).
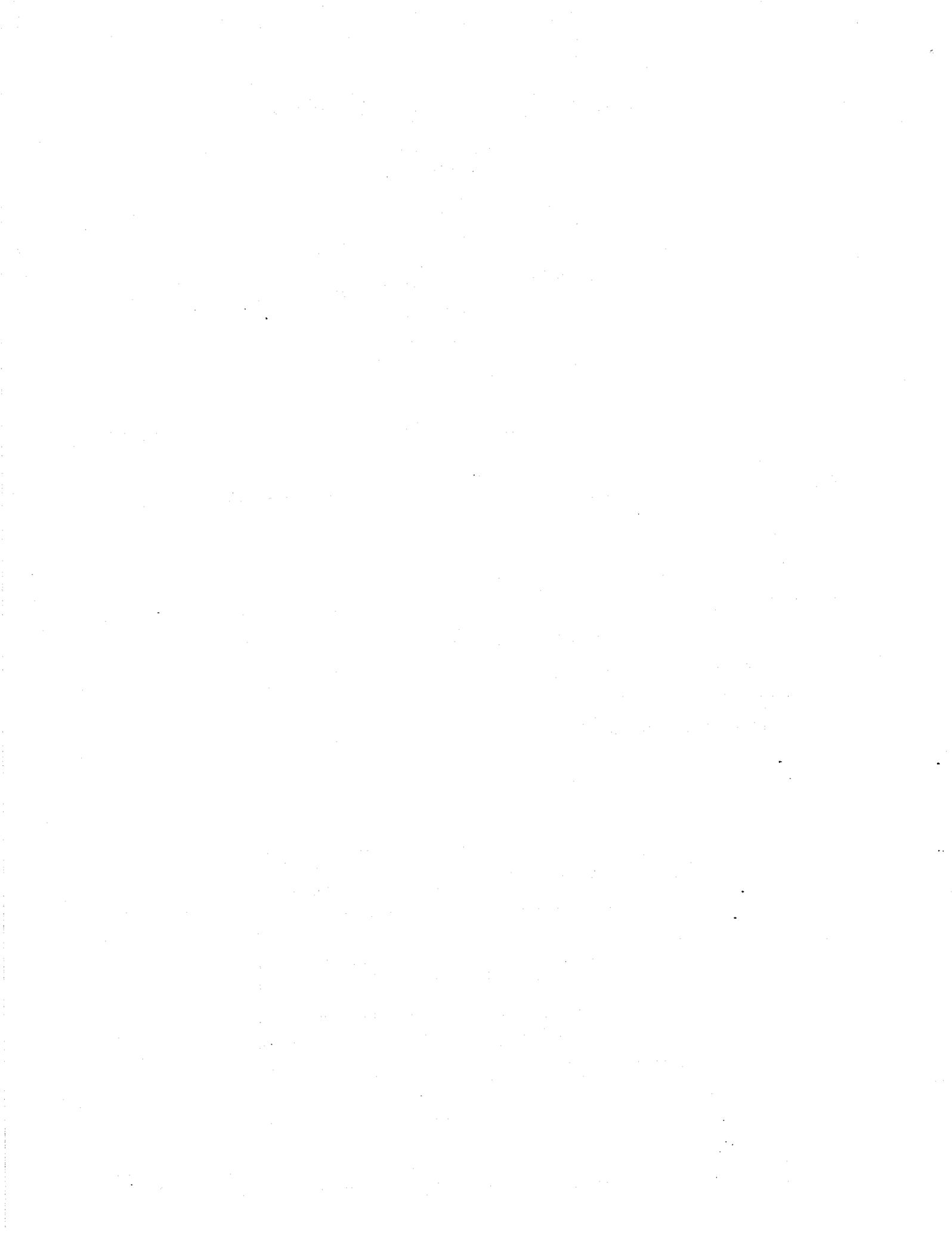
Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

1.

4	6	9	5	0

Using each digit only once, form the smallest five - digit number which is a multiple of 5.

Ans: _____

2. Mrs Wong had some ribbon. She used $\frac{1}{3}$ of it to tie a present and $\frac{1}{6}$ of the remaining ribbon to decorate a box. She had 3 m of ribbon left. What was the length of ribbon Mrs Wong had at first? Give your answer in metres and centimetres.

Ans: _____ m _____ cm

Sub-Total :

3. William earned $0.20 for every book he sold. For every 30 books he sold, he earned an additional of $3. How much would he receive for selling 360 books?

Ans: $ _____

4. The ratio of the price of an eraser to the price of a highlighter is 3 : 7. Given that each highlighter costs $0.80 more than an eraser, find the cost of the highlighter.

Ans: $ _____

3

Sub-Total :

5.   140 contestants took part in a game. Each contestant must obtain at least a
      certain score in the first round to qualify for the second round. The table below
      shows the number of contestants for each score.

Score	Number of contestants
0	11
1	15
2	16
3	27
4	42
5 or more	29

30% of the contestants **did not** qualify for the second round. From the table, what
is the lowest score of a contestant who qualified for the second round?

Sub-Total :

For questions **6** to **17**, show your working clearly 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. Aloysius had twice as much money as Rebecca. Aloysius gave some money to Rebecca and they each had $1050 in the end. How much money did Aloysius have at first?
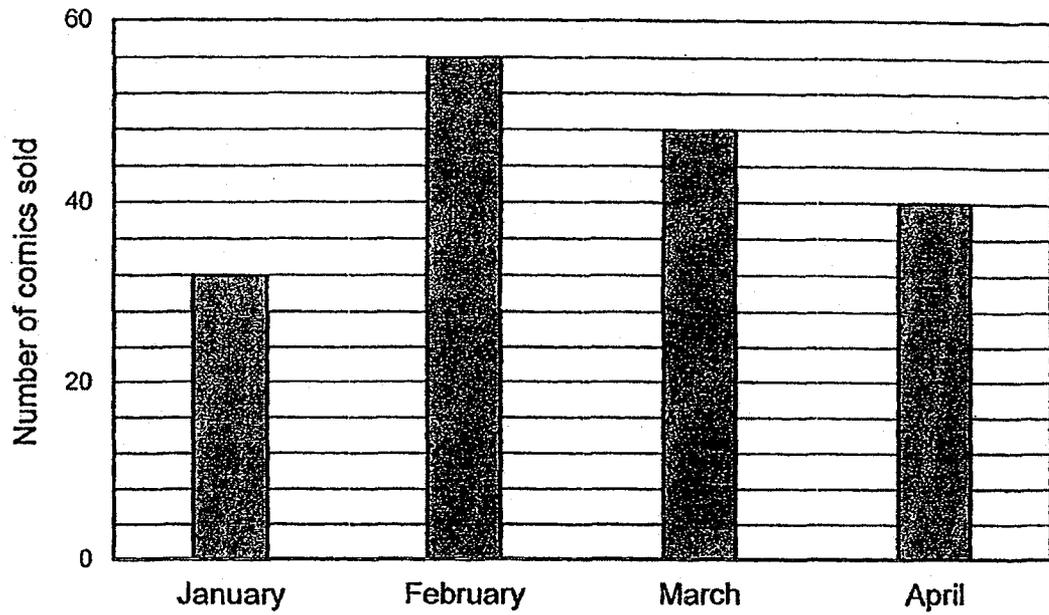
Ans: _____ [3]

7. In the figure below, UVXZ and VWYZ are rectangles. VU = 9 cm, UZ = 12 cm and VZ = 15 cm. Find the length of YZ.
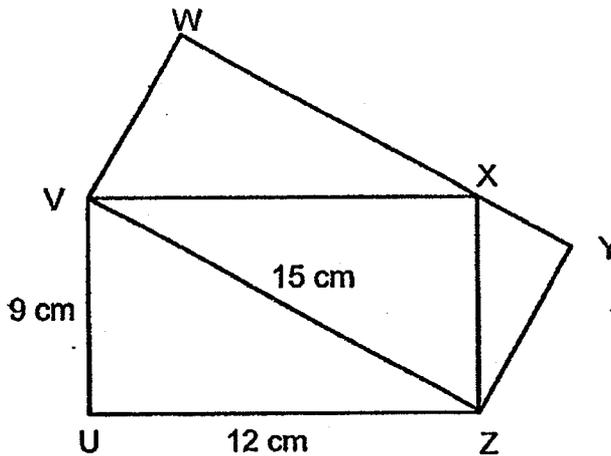
Ans: _____ [3]

Sub-Total :

8.   The graph shows the number of comics sold by a shop from January to April.

(a)   How many comics did the shop sell in January?

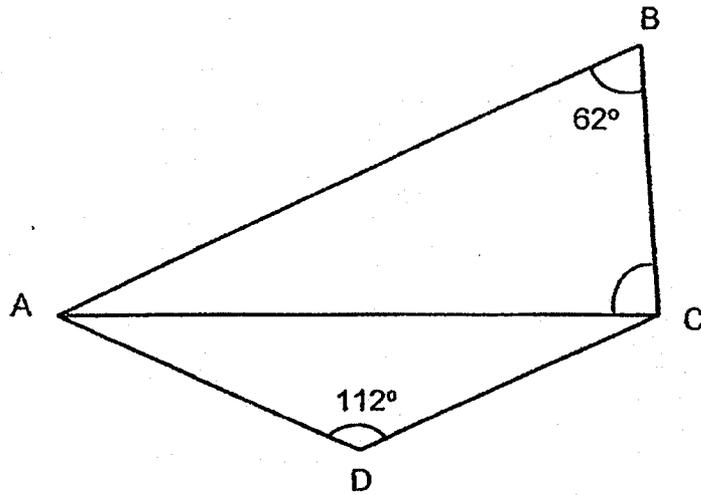(b)   How many comics must the shop sell in the month May so that the average for January to May will be 48?

Ans: (a)_____ [1]

(b)_____ [2]

6.   Sub-Total : ⬜

9.   In the figure below, ABCD is a trapezium. AB is parallel to CD. ACD is an isosceles triangle and AD = DC. ∠ABC = 62° and ∠ADC = 112°. Find ∠ACB.

Ans: _____ [3]

Sub-Total :

10. Shawn had a piece of wooden plank. He painted 195 cm of it grey and 25 cm of it white as shown below. 20 cm of the wooden plank painted grey was cut off. What percentage of the remaining wooden plank was painted white?
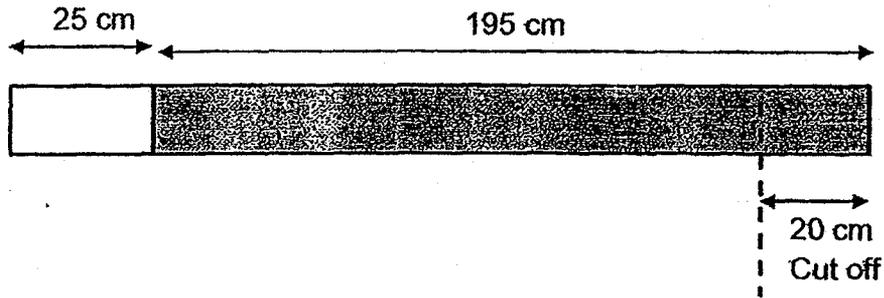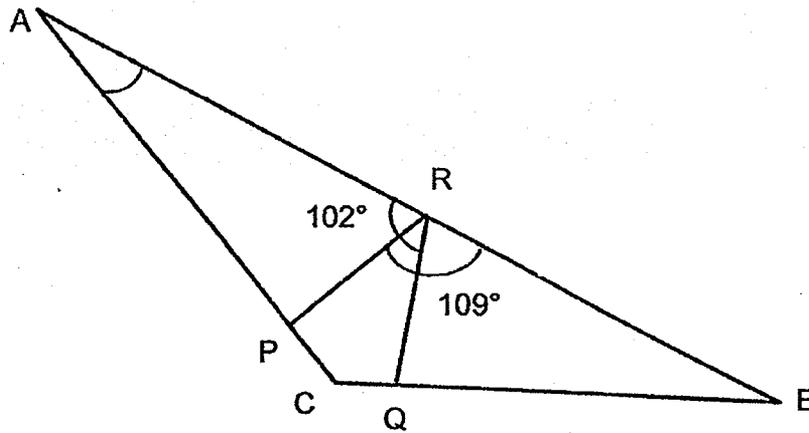

Ans: _____ [3]

11. Mrs Lee used $71 to pay for 4 identical plates and 7 identical cups. Each cup cost $1.50 more than each plate. Find the cost of one cup.

Ans: _____ [3]

8   Sub-Total :

12. In the figure below, ABC is a triangle. P, Q and R are points on the triangle such that AP = AR and BQ = BR. ∠ARQ = 102° and ∠BRP = 109°.
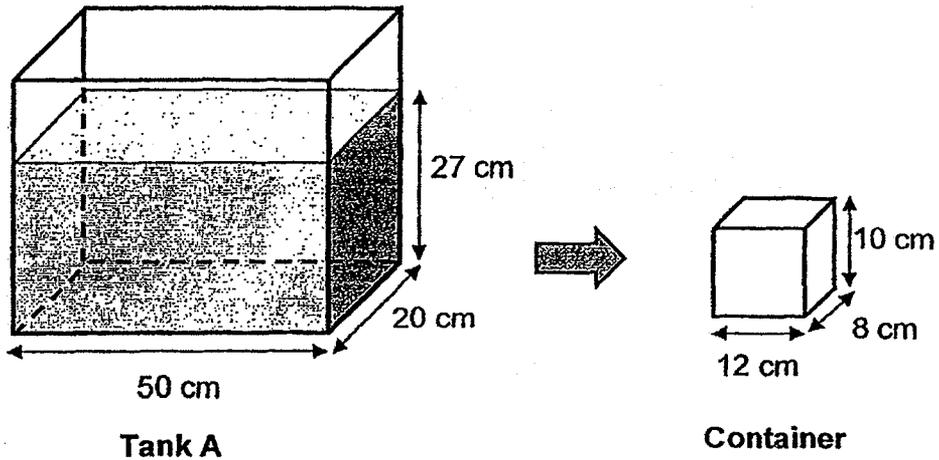

(a) Find ∠PRQ.

(b) Find ∠PAR.

Ans: (a) _____ [1]

(b) _____ [2]

Sub-Total :

13. At first, Tank A, with a rectangular base measures 50 cm by 20 cm, is filled with some water. The height of water in the tank is 27 cm. 9 litres of water is then poured into Tank A so that the tank is fully filled.

27 cm

20 cm

50 cm

Tank A

10 cm

8 cm

12 cm

Container

(a) What is the volume of water in the tank in the end?

(b) After that, all the water in the fully-filled Tank A is poured into some rectangular container to the brim without spilling. Each container measures 12 cm by 8 cm by 10 cm. What is the greatest number of containers that can be filled completely with water?

Ans: (a) _____ [2]

(b) _____ [2]

Sub-Total :

14. Muthu, Nancy and Peter shared some money. Muthu took $\frac{3}{8}$ of the money. Nancy and Peter shared the remaining amount of money equally.
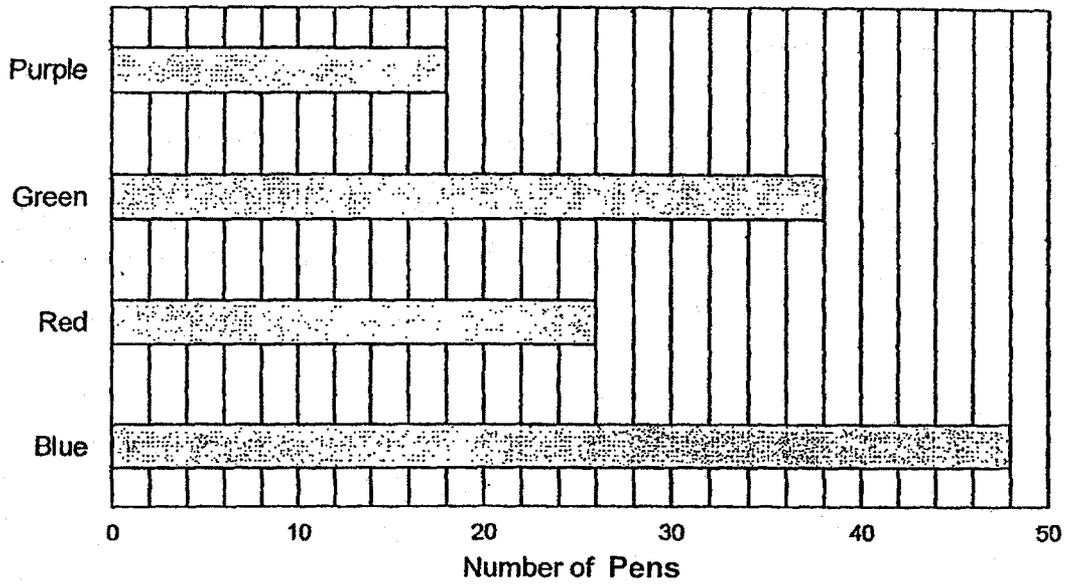
a) Find the ratio of the amount of money Muthu had to the amount of money Peter had.

b) Nancy spent $\frac{2}{5}$ of her money on a bag and Peter spent some money on a wallet. In the end, Nancy had twice as much money as Peter. What fraction of Peter's money was spent on the wallet?

Ans: (a) _____ [2]

(b) _____ [2]

Sub-Total :

15.   The bar graph below shows the number of coloured pens in a box.

Number of Pens

(a)   What percentage of the pens was red?

(b)   All the pens were given to 38 pupils in the class. Each pupil in the class received three or four pens. How many pupils received four pens?

Ans: (a) _____ [2]

(b) _____ [2]

Sub-Total :

16. Ryan and Sean each borrowed an identical book from a library. On the first day, Ryan read $\frac{1}{3}$ of the book and an additional 30 pages. On the second day, he read $\frac{1}{4}$ of the remaining book and had 84 pages of the book left.

(a) How many pages were there in the book altogether?

(b) Sean read 13 pages on the first day. He took the next 5 days to complete reading the book. If he read the same number of pages in these 5 days, how many pages did he read on each day?

Ans: (a)_____ [3]

(b)_____ [2]

13   Sub-Total :

17. Ryan and Andy have some carnival tickets. If Ryan sells 10 tickets per day and Andy sells 5 tickets per day, Ryan will have 40 tickets left when Andy has sold all his tickets. If Ryan sells 5 tickets per day and Andy sells 10 tickets per day, Ryan will have 70 tickets left when Andy has sold all his tickets.

(a) How many tickets does Ryan have?

(b) Each ticket cost $12. If Ryan and Andy manage to sell all their tickets, how much more did Ryan collect than Andy?

Ans: (a) _____ [3]

(b) _____ [2]

End of Paper 2

14   Sub-Total :

SCHOOL : ACS PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
4	1	3	4	2

PAPER 1 BOOKLET B

Q16)	80
Q17)	0.29
Q18)	2 h 35 min
Q19)	4 : 3
Q20)	90 + 55 = 145 145 + 28 = 173 360 – 173 = 187°
Q21)	1040 – 50 = 990 990 ÷ 90 = 11
Q22)	10kg→10000g 10000 – 800 = 9200 9200÷8 = 1150 1150g = 1kg 150 g = 1.150kg
Q23)	a)True b)False
Q24)	120→100% 12→10% 24→20% 120 – 24 = $96
Q25)	a)Mile = 24 Ramli – 17 b)75%
Q26)	0.1875.5 kg

Q27)	940 − 460 = 480
	480 = 2u
	240 = 1u
	460 − 240 = 220 g
Q28)	
Q29)	300°
Q30)	5/6
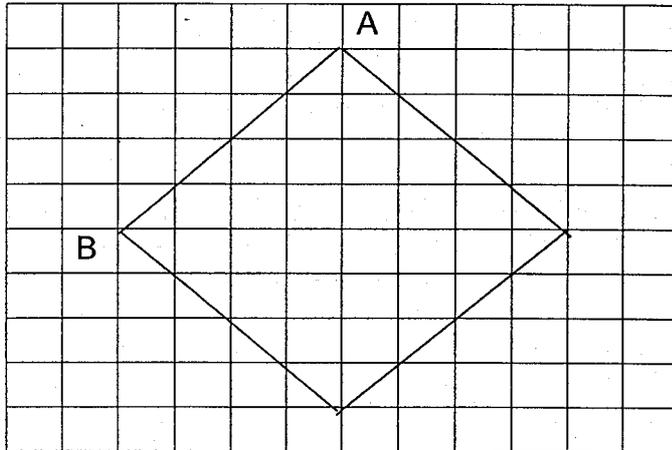
PAPER 2

Q1)	40696
Q2)	5 units→3m
	1u→3 ÷5 = 3/5
	9u = 3/5 x 9 = 52/5m
	= 5m 40cm
Q3)	0.20 x 10 = $2
	2 x 3 = 6
	3 + 6 = 9
	306 = $9
	360 ÷30 = 12
	12 x 9 = $108
Q4)	$0.80 →4u
	$0.20→1u
	0.20 x 7 = $1.40
Q5)	11 + 15 + 16 + 27 + 42 + 29 = 140
	140 = 100%
	14 x 3 = 42
	11 + 15 + 16 = 42
	ANS : 3
Q6)	1050 x 2 = 2100
	2100→3u
	1u→2100 ÷3 = 700
	700 x 2 = $1400

Q7)	7.2cm
Q8)	a)32 b)48 x 5 = 240 $\quad$32 + 56 + 48 + 40 =176 $\quad$240 – 176 = 64
Q9)	180 – 112 = 68 68 ÷ 2 = 34 112 + 34 = 146 180 – 146 = 34 34 + 62 = 96 180 – 96 = 84°
Q10)	195 + 25 = 220 220 – 20 = 200 25 ÷ 2 = 12.50%
Q11)	1.50 x 7 = 10.50 71 – 10.5 = 60.5 4 + 7 =11u 60.5 =11u 60.5÷11 = 5.5 1u = 5.5 5.5 + 1.5 = $7
Q12)	a)∠ARP = 180 – 109 = 71 $\quad$∠ PRQ = 102 – 71 = 31° b)∠ PAR = 180 – 71 – 71 = 38°
Q13)	a)50 x 20 x 27 = 27000 $\quad$27000ml →27L $\quad$27 + 9 = 36L b)12 x 8 x 10 = 960ml $\quad$36000ml ÷960 ml = 37.5 $\quad$= 37
Q14)	a)6 : 5 b)7/10
Q15)	a)18 + 36 + 26 + 48 = 130 $\quad$130→100% $\quad$13→10% $\quad$13 x 2 = 26 $\quad$ANS: 20% b)

4pens	4p total	3pen	3p total	total	√ /x
27	108	11	33	141	x
25	100	13	39	139	x
20	80	18	54	134	x
16	64	22	66	130	√

	ANS: 16
Q16)	84→ ¾ ¼ →28 x 4 = 112 112 + 30 = 142 142 = 2/3 1/3 = 71 71 x 3 = 213 213 − 13 = 200 200 ÷ 5 = 40 a)213 b)40
Q17)	3u→30 1u→10 Ryan→10 + 70 = 80 80 − 20 = 60 60 x 20 = $720 a)80 b)$720