

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet A

Monday

2 November 2015

50 min

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.

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. What is the value of $4 + 36 \div (6 - 2) \times 2$?

- 1) 5
- 2) 12
- 3) 20
- 4) 22

2. How many eighths are there in $2\frac{3}{4}$?

- 1) 8
- 2) 11
- 3) 22
- 4) 23

3. Which one of the following is nearest to 2?

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

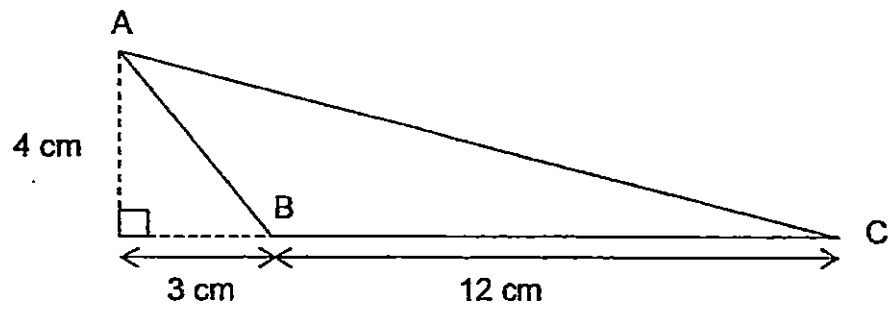
4. Round off 3.183 to the nearest hundredths.

- 1) 3.1
- 2) 3.2
- 3) 3.18
- 4) 3.19

5. Which of the following is the same as 1.003 kg?

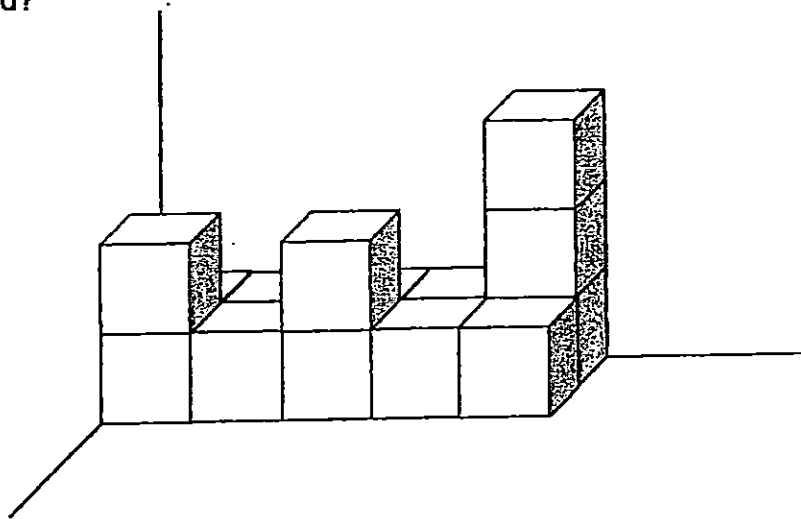
- 1) 1 kg 3 g
- 2) 1 kg 30 g
- 3) 1kg 300 g
- 4) 1 kg 3000 g

6. What is the area of triangle ABC as shown in the figure?

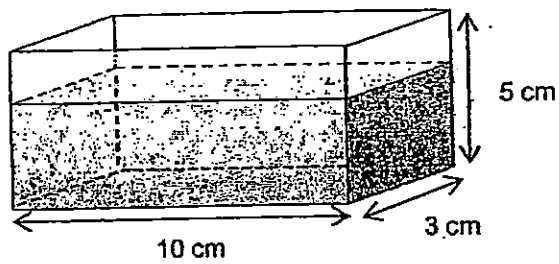


- 1) 24 cm^2
- 2) 30 cm^2
- 3) 48 cm^2
- 4) 60 cm^2

7. The solid below is made up of 1-cm cubes. What is the volume of the solid?

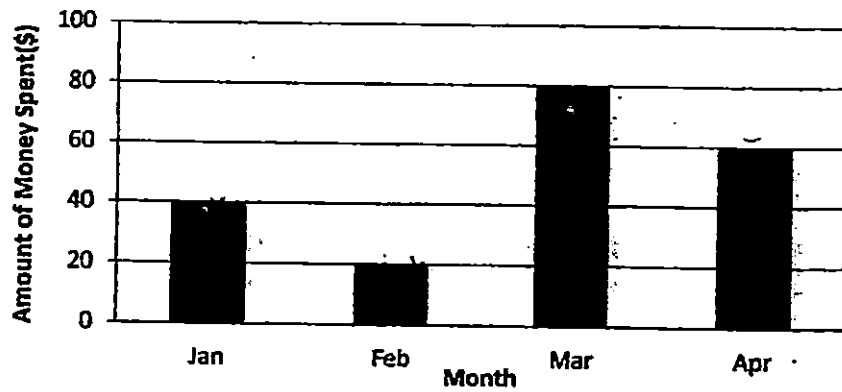


- 1) 12 cm^3
 - 2) 13 cm^3
 - 3) 14 cm^3
 - 4) 15 cm^3
8. The rectangular tank below is $\frac{3}{5}$ filled with water. What is the volume of water in the tank?



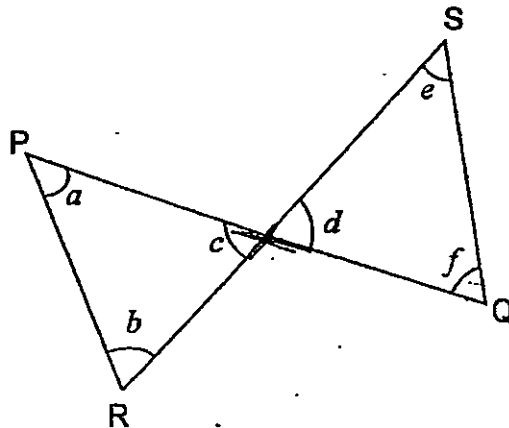
- 1) 60 cm^3
- 2) 90 cm^3
- 3) 150 cm^3
- 4) 250 cm^3

9. The graph shows the amount of money William spent each month



William had the same amount of allowance from January to April. In which month did he save the most?

- 1) Jan
 - 2) Feb
 - 3) Mar
 - 4) Apr
10. In the figure below, PQ and RS are straight lines. Which pair of angles is equal?



- 1) a and b
- 2) e and f
- 3) c and d
- 4) b and f

11. Jordan had 50 more erasers than Kumar at first. Jordan gave 6 of his erasers to Kumar. Jordan now has 3 times as many erasers as Kumar. How many erasers did Kumar have at first?

- 1) 13
- 2) 19
- 3) 22
- 4) 25

12. William bought 12 kg of sugar. After filling 8 containers with the same amount of sugar each, he had 800 g left. How much sugar was there in each container?

- 1) 700 g
- 2) 1 kg 400 g
- 3) 1 kg 500 g
- 4) 1 kg 600 g

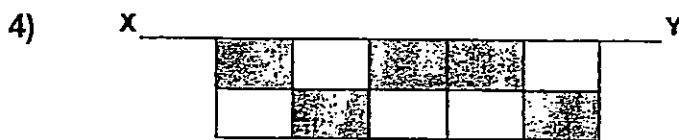
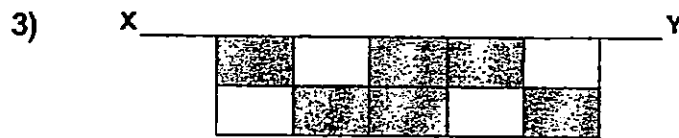
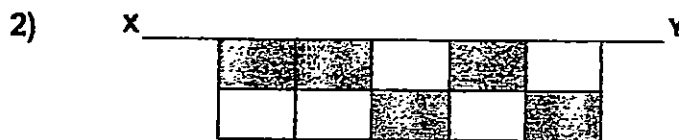
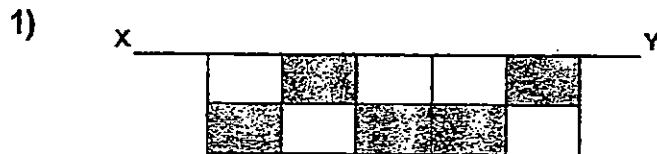
13. Aaron bought 6 pears and 2 peaches for \$15. 1 peach cost twice as much as a pear. What was the cost of 1 peach and 1 pear?

- 1) \$1.50
- 2) \$2.50
- 3) \$3.00
- 4) \$4.50

14.



The top half of a symmetric figure is shown above. XY is the line of symmetry. Which one of the following completes the symmetric figure?



15. Sebastian earned \$4000 last month. He spent 50% of his salary, donated \$400 to charity and saved the rest. What percentage of his salary did he save?

- 1) 10 %
- 2) 20 %
- 3) 30 %
- 4) 40 %

End of Booklet A

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet B

Monday

2 November 2015

50 min

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.

This question paper consists of 9 printed pages (inclusive of cover page).

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. Write 18 thousands, 4 hundreds and 20 tens in numerals.

Answer : _____

17. Express $\frac{7}{4}$ as a decimal.

Answer : _____

18. $37\ 800 \div 9\ 000 =$ _____

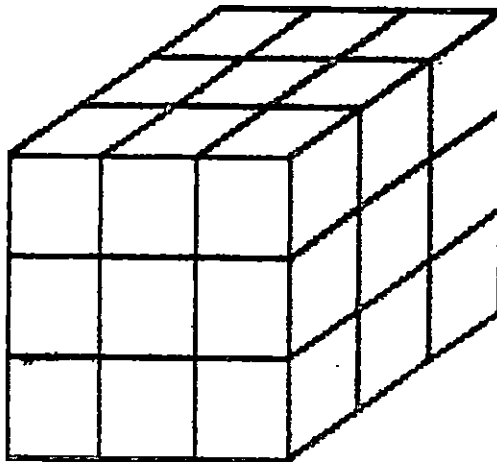
Answer : _____

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19. At first, Mary had 20 m of string. She cut the string into smaller pieces. Each piece is 50 cm. How many pieces of string were there in the end?

Answer : _____

20. 27 small cubes have been linked together to form a large cube. The large cube is then painted pink completely on all the outside faces. How many small cubes have three painted pink faces?



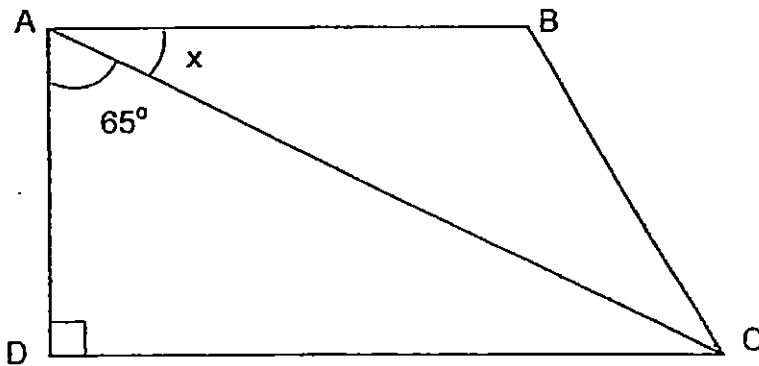
Answer : _____

21. The table below shows the age of 5 boys. Whose age is the closest to their average age?

Name	Age
Andy	10
Brian	12
Chris	13
Daniel	14
Ethan	15

Answer : _____

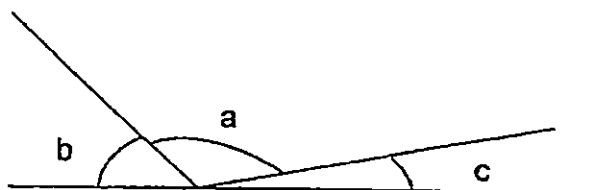
22. In the figure below, ABCD is a trapezium. Find $\angle x$.



Answer : _____

23. The following figure is made up of straight lines.

Given that the ratio of $\angle a$ to $\angle b$ to $\angle c$ is $3 : 2 : 1$, find $\angle c$.



Answer : _____ °

24. Express $\frac{7}{8}$ as a percentage.

Answer : _____ %

25. At a concert, there were 240 men, 360 women and 150 children. Find the ratio of the number of men to the number of women to the number of children. Express your answer in the simplest form.

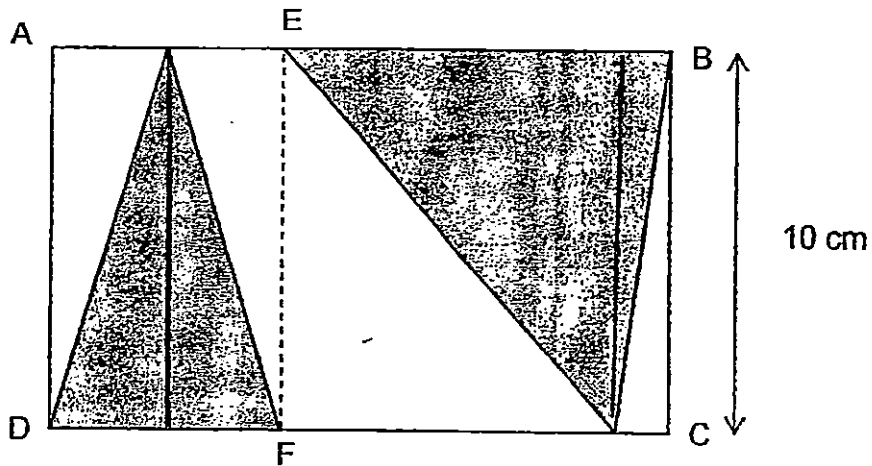
Answer : _____

Questions 26 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. (10 marks)

26. Sherwin had twice as many books as Danny. Sherwin gave 25 books to Danny. After that, Sherwin had 100 books more than Danny. How many books did Sherwin have at first?

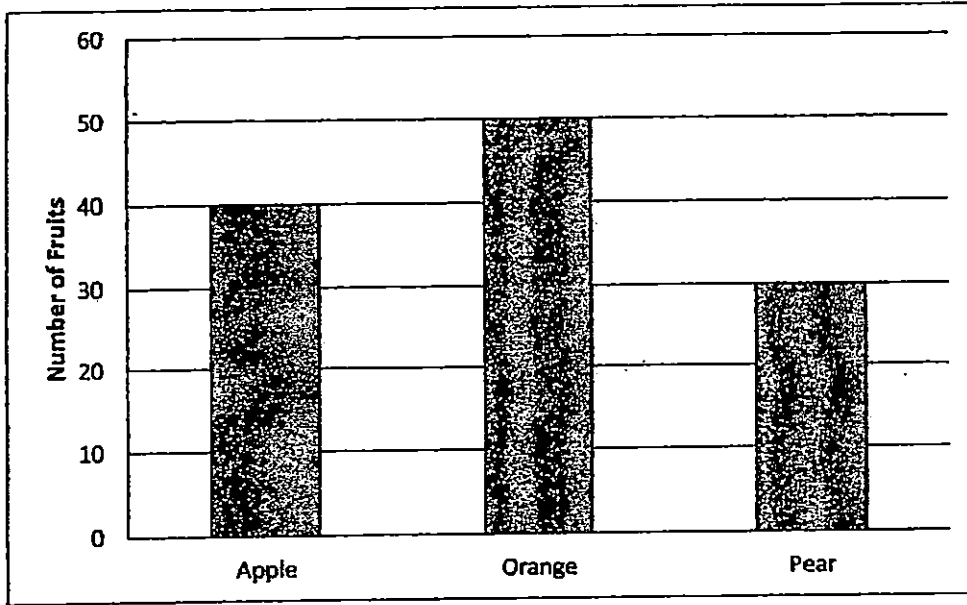
Answer : _____

27. The area of the rectangle ABCD is 140 cm^2 . EF is parallel to AD. What is the area of the shaded part?



Answer : _____ cm^2

28. The graph below shows the number of each type of fruit sold by a shop.



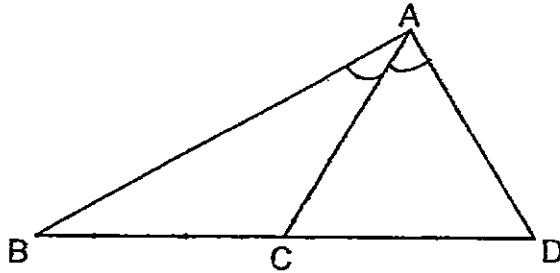
The table shows the prices of the fruits.

Type of Fruits	Price per Fruit
Apple	\$0.20
Orange	\$0.15
Pears	\$0.25

From the sale of which type of fruit did the shop collect the most money?

Answer : _____

29. ACD is an equilateral triangle and $AC = BC$.
Find $\angle BAC$.



Answer : _____

30. Brian had 40 shirts. 25% of his shirts were black. The remaining shirts were blue. How many blue shirts did Brian have?

Answer : _____

End of Booklet B

Anglo-Chinese School (Junior)



SEMESTRAL ASSESSMENT 2 (2015)

PRIMARY 5

MATHEMATICS

PAPER 2

Monday

2 November 2015

1 h 40 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	
	B	20	
2		60	
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. A pencil case containing 4 pencils weighs 550 g. A pencil case containing 6 pencils weighs 700 g. What is the weight of a pencil?

Ans : _____

2. Craig, Daniel and Edward shared an amount of money. Craig took $\frac{1}{3}$ of the total amount of money. Daniel had twice as much money as Edward. The boys have \$360 altogether. How much money does Edward have?

Ans : \$ _____

3. The table below shows the cost of data usage for Mr Goh's mobile phone.

First 500 MB	\$6.60
Subsequent 100 MB or part thereof	\$1.80

How much does Mr Goh have to pay for his data plan if he used 885 MB this month?

Ans : \$ _____

4. The average score of a revision test of a group of pupils was 85. When one pupil who scored 81 marks left the group, the average score of the remaining pupils became 86. How many pupils were there in the group at first?

Ans : _____

5. In a school hall, the ratio of the number of teachers to the total number of boys and girls was 2 : 1. The ratio of the number of boys to the number of girls was 3 : 4. There were 20 girls in the school hall. How many teachers were there?

Ans : _____

For questions 6 to 18, 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. (50 marks)

6. Sam bought the same number of books and pens. He spent \$112 on the books and \$48 on the pens. A book cost \$4 more than a pen. What was the cost of one book?

Ans : _____ [3]

7. Three boys used the same number of ice-cream sticks to make toys. Ash used $\frac{2}{3}$ of his ice-cream sticks, Bala used $\frac{1}{2}$ of his ice-cream sticks and Charles used $\frac{3}{5}$ of his ice-cream sticks. They had a total of 620 ice-cream sticks at first. How many ice-cream sticks did Charles have at first?

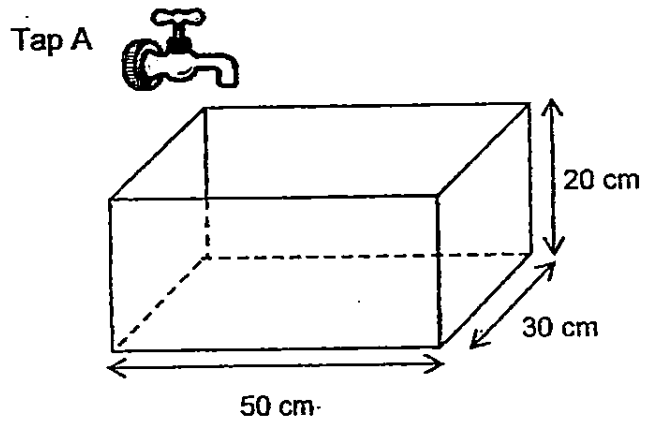
Ans: _____ [3]

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8. Rex had 10 m of ribbon. He used 1.82 m of it to tie a present. He then cut the remaining ribbon into 4 equal strips. What is the length of each strip of ribbon? Round off your answer to the nearest metre.

Ans : _____ [3]

9. An empty rectangular glass tank measures 50 cm by 30 cm by 20 cm. Tap A was turned on and flowed at a rate of 1.5 litres per minute. How long will it take to fill up $\frac{2}{5}$ of the tank?



Ans: _____ [3]

10. Olio earns \$3660 a month. He spends 30% of his monthly salary. Vincent spends the same amount of money as Olio and saves the rest. Given that Vincent saves 50% of his salary, what is his monthly salary?

Ans : _____ [3]

11. Guo Kai had twice as many English books as Chinese books at first. After he gave away 32 English books and 32 Chinese books, the number of English books left was 4 times the number of Chinese books left.
- a) How many English books did he have at first?
- b) Guo Kai then sold $\frac{1}{4}$ of his Chinese books. How many Chinese books had he left?

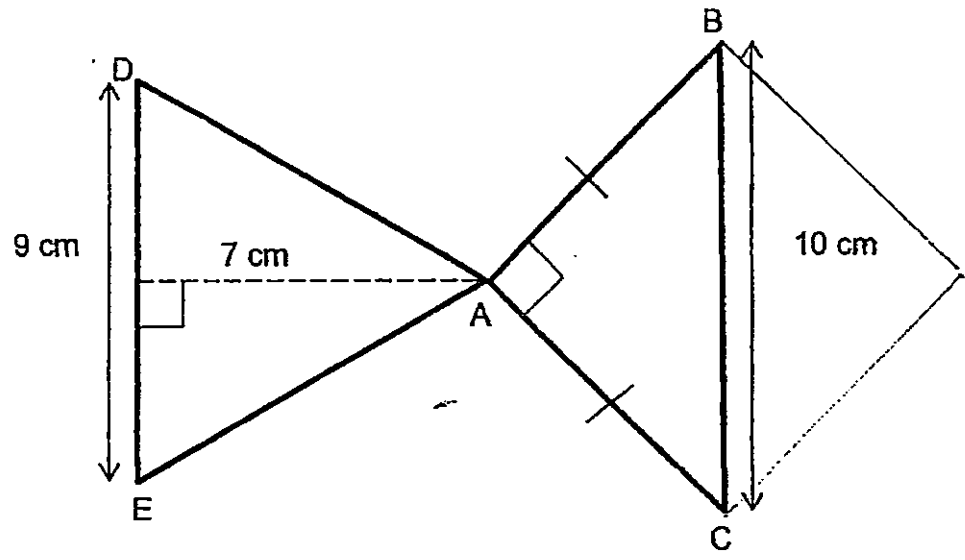
Ans : (a) _____ [2]

(b) _____ [2]

12. Gordon gave $\frac{1}{3}$ of his sweets to Conrad. After that, Conrad gave Gordon $\frac{1}{4}$ of what he had. In the end, Gordon had 64 sweets and Conrad had 72 sweets. How many sweets did Gordon have at first?

Ans : _____ [4]

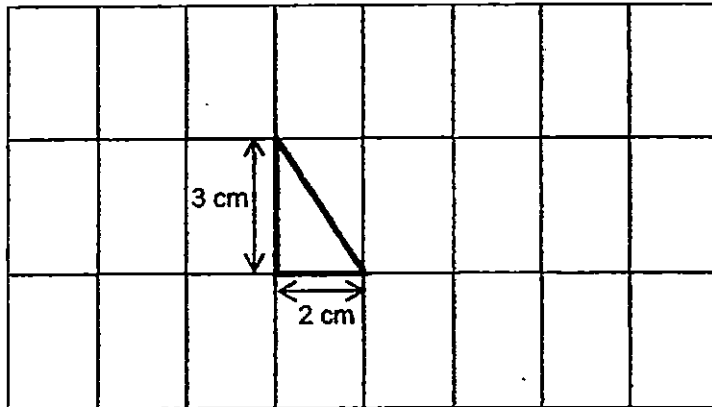
13. The figure below is not drawn to scale and is formed by two triangles ABC and ADE. Find the area of the figure.



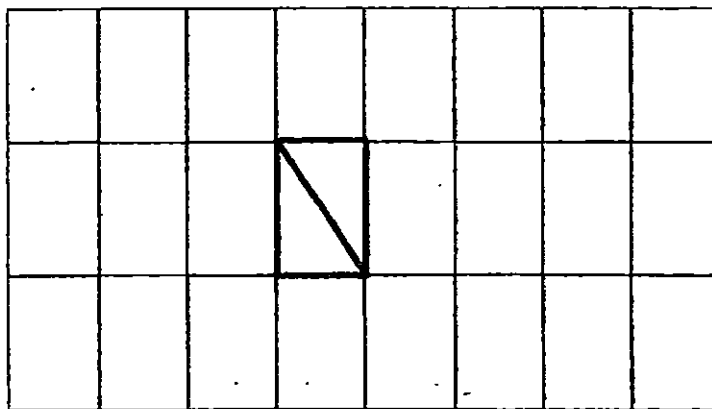
Ans : _____ [4]

Sub-Total :

14. A unit shape measuring 3 cm by 2 cm in the form of a right-angled triangle is drawn in the grid below. (Figure not drawn to scale)



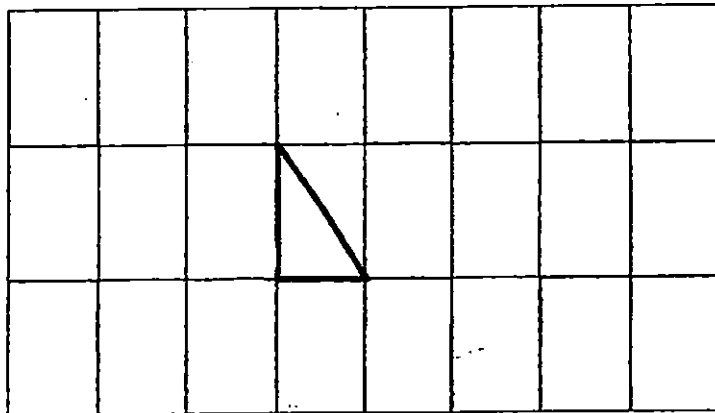
Zachary forms a rectangle by joining two unit shapes as show below.



In addition to the rectangle, he then wants to form three more figures: an isosceles triangle, a parallelogram and a square. Each figure is to be formed with the **smallest** number of unit shapes. All three figures should be **different** from each other.

Complete the drawing of the other three figures below by adding one or more unit shapes to the one drawn.

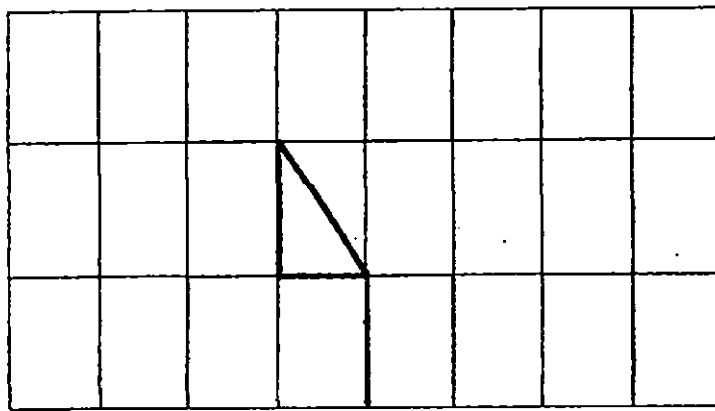
14 a)



Isosceles Triangle

[1]

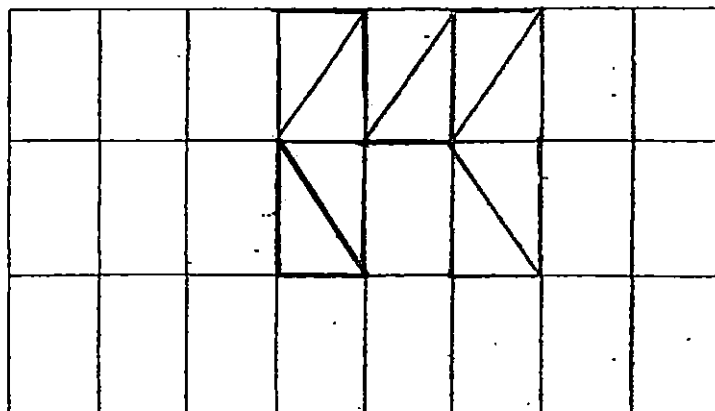
14 b)



Parallelogram

[1]

14 c)



Square

[2]

15. Xander decided to save $\frac{1}{5}$ of his monthly salary for a holiday to Spain. In January, Xander earned \$5 600. In February, his salary increased by 10%.
- a) How much did he earn in February?
 - b) The amount of money saved in January and February was 60% of what he needed for the holiday. What was the total amount of money Xander needed for his holiday?

Ans: (a) _____ [1]
(b) _____ [3]

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16. Debussy had \$32 in savings, made up of 10-cent, 20-cent and 50-cent coins. He had four times as many 10-cent coins as 20-cent coins. He had twice as many 50-cent coins as 20-cent coins.

(a) What was the total value of his 50-cent coins?

(b) If he were to exchange his 20-cent coins and 50-cent coins for \$2-notes, how many \$2-notes would he receive?

Ans: (a) _____ [3]

(b) _____ [2]

17. Edgar spent $\frac{1}{4}$ of his money a watch. He spent $\frac{2}{5}$ of the remainder on 4 shirts and saved the rest.

(a) What fraction of Edgar's money did he spend on the 4 shirts?

(b) The watch cost \$168 more than one shirt. Given that the price of each shirt was the same, how much did Edgar save?

Ans: (a) _____ [3]

(b) _____ [2]

18. Lee Eng baked chocolate cookies and macadamia cookies in the ratio 3 : 2. She gave away 132 chocolate cookies and 92 macadamia cookies. After that, the ratio of chocolate cookies to macadamia cookies was 2 : 1.

(a) How many cookies did she have altogether in the end?

(b) The remaining cookies were sold in packets of 4 for \$1 or \$0.50 each. She earned \$11 from the sales. How many cookies were sold at \$0.50 each?

Ans: (a) _____ [2]

(b) _____ [3]

End of Paper 2



EXAM PAPER 2015

LEVEL : PRIMARY 5

SCHOOL : ANGLO CHINESE JUNIOR

SUBJECT : MATHEMATICS

TERM : SA2

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

Q16. 18600

Q17. 1.75

Q18. 4.2

Q19. 40 pieces \rightarrow 20m 200cm, $2000 \div 50 = 40$

Q20. 8 small cubes

Q21. Chris $\rightarrow 10 + 2 + 13 + 14 + 15 = 64$, $64 \div 5 = 12.8$

Q22. $25^\circ \rightarrow 180 - 90 - 65 = 25$

Q23. $30^\circ \rightarrow 180^\circ \div 6 = 30^\circ$

Q24. 87.5% $\rightarrow \frac{7}{8} \times 100\% = 87.5\%$

Q25. 8:12:5 $\rightarrow M : N : C$, $240 : 360 : 150$ (divide by 10) $\rightarrow 24 : 36 : 15$ (divide by 3), 8:12:5

Q26. 300 books $\rightarrow 1u$ $100 = 25 + 25 = 150$, $2u$ $150 \times 2 = 300$

Q27. $70\text{cm}^2 \rightarrow 140 \div 10 = 14$, $\frac{1}{2} \times 14 \times 10 = 70$

Q28. Apples $\rightarrow 40 \times 0.20 = 8.00$, $50 \times 0.15 = 7.50$, $30 \times 0.25 = 7.50$

Q29. $30^\circ \rightarrow 180 - 60 = 120$, $180 - 120 = 60$, $60 \div 2 = 30$

Q30. 30 blue shirts $\rightarrow \frac{75}{100} \times 40 = 150 = 30$

Q1. 75g $\rightarrow 2p$ $700 - 550 = 150$, $1p$ $150 \div 2 = 75$

Q2. \$80 $\rightarrow C$ $\rightarrow 360 \div 3 = 120$, $3U$ $\rightarrow 360 - 120 = 240$, $1u$ $\rightarrow 240 \div 3 = 80$

Q3. \$13.80 $\rightarrow 6.60 + 1.80 + 1.80 + 1.80 + 1.80 = 13.80$

Q4. 5 pupils $\rightarrow 86 - 81 = 5$, $86 - 85 = 1$, $5 \div 1 = 5$

Q5. 70 teachers $\rightarrow 20$ $4u$, $1u$ $20 \div 4 = 5$, $7u$ $7 \times 5 = 35$, $1p$ 35 , $2p$ $35 \times 2 = 70$

Q6. \$7 $\rightarrow 112 - 48 = 64$, $64 \div 4 = 16$, $16B$ \$112, $1B$ $112 \div 16 = 7$

Q7. 200 ice cream sticks $\rightarrow 31u$ 620 , $1u$ $620 \div 31 = 20$, $10u$ $10 \times 20 = 200$

Q8. $2m \rightarrow 10 - 1.82 = 8.18, 8.18 \div 4 = 2.045, 2.045m \approx 2m$

Q9. 8 minutes

$50 \times 20 \times 30 = 30,000,$

$1.5 \text{ litre} \rightarrow 1500m^3$

$30000 \div 5 = 6000$

$6000 \times 2 = 12000$

$12000 \div 1500 = 8$

Q10. \$2196

$\frac{30}{100} \times 3660 = 1098$

$505 \text{ } 1098, 100\% \text{ } 1098 \times 2 = 2196$

Q11a. 96 english books

$2u \rightarrow 32, 1u \rightarrow 32 \div 2 = 16$

$E \rightarrow 16 \times 2 = 32, 32 \times 2 = 64, 64 + 32 = 96$

Q11b. 12 chinese books

$\frac{1}{4} \times 16 = 4, 16 - 4 = 12$

Q12. 62 sweets

	Gordon	Conrad
End	72	64
C gave $\frac{1}{4}$	$3u = 72, 1u = 24 (96); 4u = 96$	$+24, 64 - 24 = 40$
G give $\frac{1}{3}$	X	60

Q13. $56.5cm^2$ SEE DRAWN PICTURE

$\frac{10 \times 10}{4} = 25$

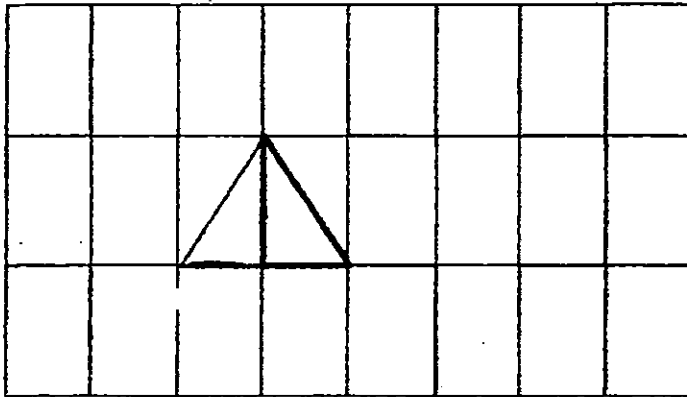
$10 \div 5 = 2$

mid point of square, $\frac{1}{2} \times 10 \times 5 = 25, 25 + 31.5 = 56.5cm^2$

Q14a, Q14b and Q14c \rightarrow SEE PICTURE on page 3

Complete the drawing of the other three figures below by adding one or more unit shapes to the one drawn.

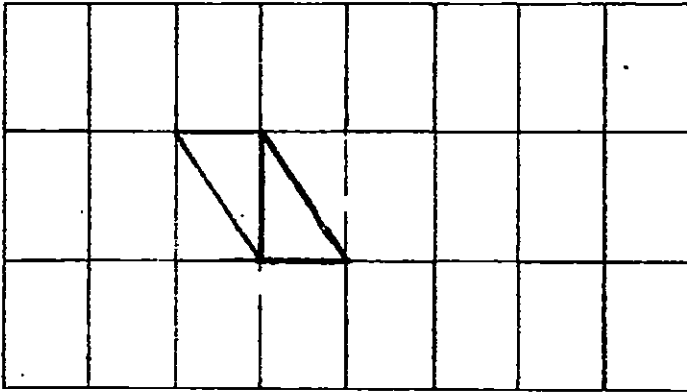
14 a)



Isosceles Triangle

[1]

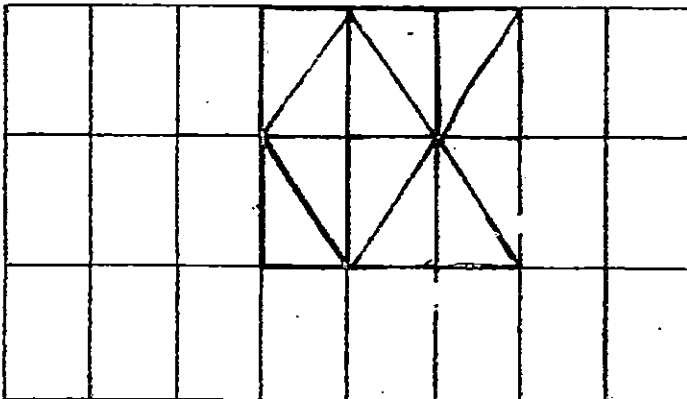
14 b)



Parallelogram

[1]

14 c)



Square

[2]

$$\text{Q15a. } \$6160 \rightarrow \frac{10}{100} \times 5600 = 560, 5600 + 560 = 6160$$

Q15b. \$3920

$$\frac{1}{5} \times 5600 = 1120, \frac{1}{5} \times 6160 = 1232,$$

$$60\% \rightarrow 1232 + 1120 = 2352, 1\% 2352 \div 60 = 39.20,$$

$$100\% \rightarrow 100 \times 39.20 = 3920$$

Q16a. \$20

$$4 \times 0.10 = 0.40, 1 \times 0.20 = 0.20, 2 \times 0.50 = 1, 1 + 0.40 + 0.20 = 1.60,$$

$$32 \div 1.60 = 20, 20 \times 2 = 40, 40 \times 0.50 = 20$$

Q16b. 12 \$2 notes

$$\text{Value of 50¢ coins} \rightarrow \$20$$

$$\text{Value of 20¢ coins} \rightarrow 20 \times \$0.20 = \$4$$

$$\text{Total value} \rightarrow \$20 + \$4 = \$24$$

$$\text{No. of \$2 notes} \rightarrow \$24 \div \$2 = 12$$

$$\text{Q17a. } \frac{6}{20}$$
$$\frac{3}{20} + \frac{3}{20} = \frac{6}{20}$$

Q17b. \$432

$$6 \div 4 = 1.5$$

$$3.5u \ 168$$

$$1u \rightarrow 168 \div 3.5 = 48$$

$$15u \rightarrow 5 \times 48 = 48$$

$$15u \rightarrow 15 \times 48 = 720$$

$$6u \rightarrow 6 \times 48 = 288$$

$$720 - 288 = 432$$

Q18a. 36 cookies

Q18b. 8 cookies

$$1u \ 184 - 132 = 52$$

$$3u \ 52 \times 3 = 156$$

$$2p \ 156 - 132 = 24$$

$$1p \ 24 \div 2 = 12$$

$$3p \ 12 \times 3 = 36$$

THE END