



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET A)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( ) Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Booklets A & B: 50min

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 7 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.
5. You are not allowed to use a calculator.

Questions 1 to 10 carry 1 mark each. Question 11 to 15 carry 2 marks each. 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)

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1. What is the value of 13 thousands and 26 hundreds?

- 1) 13 260
- 2) 15 600
- 3) 39 000
- 4) 132 600

2. Round off 745 921 to the nearest ten thousand.

- 1) 749 000
- 2) 745 920
- 3) 746 000
- 4) 750 000

3. Find the volume of a cube of length 6 cm.

- 1)  $6 \text{ cm}^3$
- 2)  $18 \text{ cm}^3$
- 3)  $36 \text{ cm}^3$
- 4)  $216 \text{ cm}^3$

4. How many eighths are there in  $1\frac{3}{8}$ ?

- 1) 8
- 2) 11
- 3) 3
- 4) 24

5. Gideon has \$55 at first. He spent \$25 on a wallet. What fraction of his money is left?

1)  $\frac{5}{16}$

2)  $\frac{5}{11}$

3)  $\frac{6}{11}$

4)  $\frac{5}{6}$

6. Which one of the following has the same value as  $6\frac{1}{4}$ ?

1) 31

2) 25

3) 8.5

4) 6.25

7. An apple costs \$0.40. A pear costs \$0.80 more than an apple. Find the cost of 10 such pears.

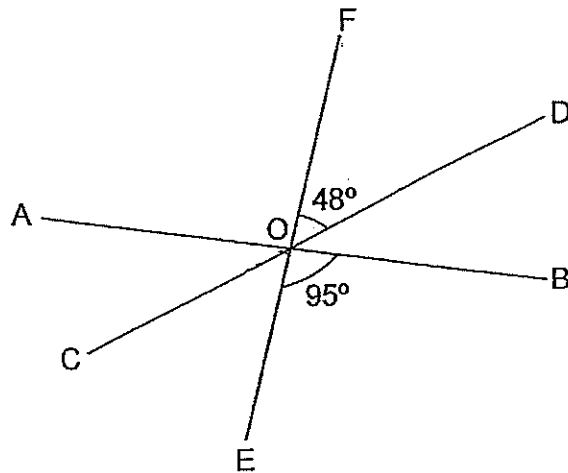
1) \$ 1.20

2) \$ 4.80

3) \$ 12

4) \$ 16

8. In the figure shown, not drawn to scale, AB, CD and EF are straight lines,  $\angle DOF = 48^\circ$  and  $\angle BOE = 95^\circ$ . Find  $\angle AOC$ .



- 1)  $37^\circ$   
2)  $47^\circ$   
3)  $132^\circ$   
4)  $143^\circ$
9. John had twice as many erasers as Mike while Lance has 5 more erasers than Mike. If Lance has 45 erasers, what is the average number of erasers that the 3 boys have?

- 1) 40  
2) 50  
3) 55  
4) 90

10. Express 3.3% as a decimal.

- 1) 0.033
- 2) 0.33
- 3) 3.03
- 4) 3.3

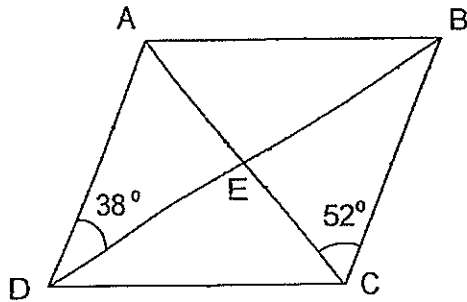
11. 28.2 m of ribbon is cut into 8 shorter pieces. Each of the shorter pieces must measure 1.52 m. What was the length of the remaining piece of ribbon?

- 1) 16.04 m
- 2) 16.40 m
- 3) 20.00 m
- 4) 26.68 m

12. A rectangular tank measuring 30 cm by 40 cm by 40 cm is  $\frac{5}{8}$  filled with water. How many more litres of water are needed to fill the tank to its brim?

- 1) 6
- 2) 18
- 3) 30
- 4) 48

13. In the figure below, not drawn to scale, ABCD is a rhombus.  $\angle ADB = 38^\circ$  and  $\angle BCE = 52^\circ$ . Find  $\angle AEB$ .



- 1)  $74^\circ$
  - 2)  $90^\circ$
  - 3)  $104^\circ$
  - 4)  $128^\circ$
14. The ratio of the number of green markers to the number of orange markers in a box is 3 : 5. There are 18 green markers in the box. If each marker costs \$2, find the total cost of all the markers.
- 1) \$ 16
  - 2) \$ 36
  - 3) \$ 60
  - 4) \$ 96

15. Peter has some ~~cards~~<sup>stamp</sup>. 75% of the stamps are local stamps and the rest are Malaysian stamps. Peter has 450 more local stamps than Malaysian stamps. How many Malaysian stamps does Peter have?

- 1) 150
- 2) 225
- 3) 675
- 4) 900



Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 1 (BOOKLET B)  
PRIMARY FIVE

Name: \_\_\_\_\_ ( ) Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Paper Booklets A & B: 50 min

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Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 9 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are not allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 1 Booklet A. Multiple-Choice Questions	20	
Paper 1 Booklet B. Short Answers: Part 1	10	
Paper 1 Booklet B. Short Answers: Part 2	10	
Total Marks	40	



Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. Give your answers to the units stated and to its simplest form whenever necessary.  
(10 marks)

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16. Form the smallest 5-digit even number using all the digits below:

0, 3, 6, 7, 4

Answer: \_\_\_\_\_

17. If  $\frac{2}{5}$  of a number is 18. what is the number?

Answer: \_\_\_\_\_

18.  $13.5 \times 4 = 54$

$$1.35 \times \square = 54$$

What is the missing number?

Answer: \_\_\_\_\_

19. In a class of 40 pupils, 60% of them like to swim. How many pupils in the class like to swim?

Answer: \_\_\_\_\_

20. Express 35% as a fraction in its simplest form

Answer: \_\_\_\_\_

21. Aaron took  $\frac{1}{2}$  h to finish his dinner. His brother took  $\frac{1}{4}$  h longer to finish his dinner. Express the time taken by Aaron to finish his dinner as a ratio to the time taken by his brother to finish his dinner.

Answer: \_\_\_\_\_

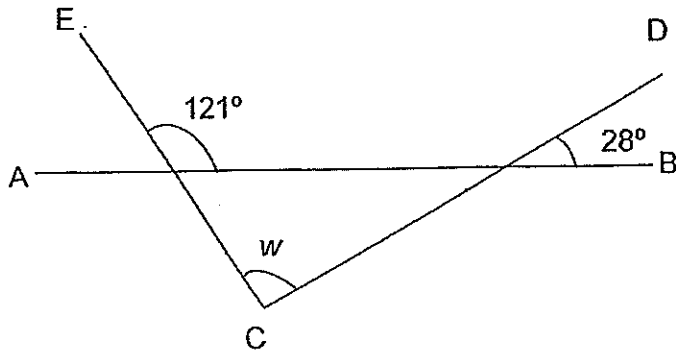
22. Ali and Kumar share some country erasers in the ratio 7 : 5. After Ali gave Kumar 12 country erasers, both of them have the same number of country erasers. How many country erasers do they have altogether?

Answer: \_\_\_\_\_

23. What is the value of  $(35 + 16) - 8 \times 2$ ?

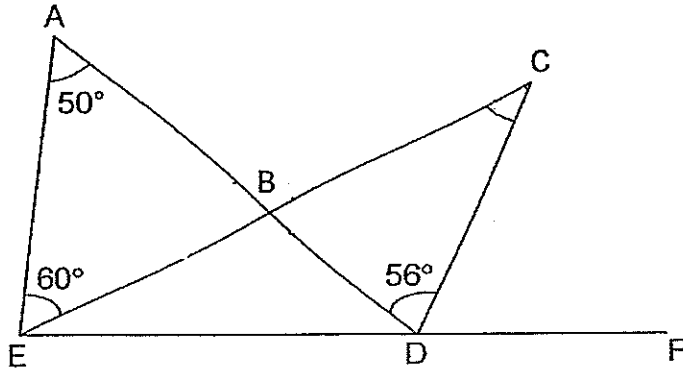
Answer: \_\_\_\_\_

24. In the figure below, not drawn to scale, AB, EC and CD are straight lines.  
Find  $\angle w$ .



Answer: \_\_\_\_\_<sup>o</sup>

25. In the figure below, not drawn to scale, ABD, EBC and EDF are straight lines.  $\angle EAB = 50^\circ$ ,  $\angle AEB = 60^\circ$  and  $\angle CDB = 56^\circ$ .  
Find  $\angle BCD$ .

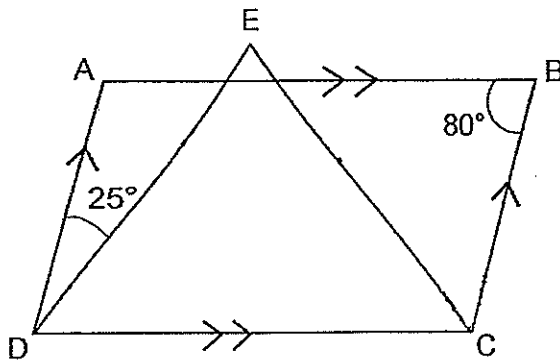


Answer: \_\_\_\_\_°

Questions 26 to 30 carry 2 marks each. Show all mathematical statements clearly in the space below each question and write your answers in the spaces provided.

(10 marks)

26. In the figure below, not drawn to scale, ABCD is a parallelogram.  $DE = CE$ ,  $\angle ADE = 25^\circ$  and  $\angle ABC = 80^\circ$ . Find  $\angle ECB$ .



Answer: \_\_\_\_\_°

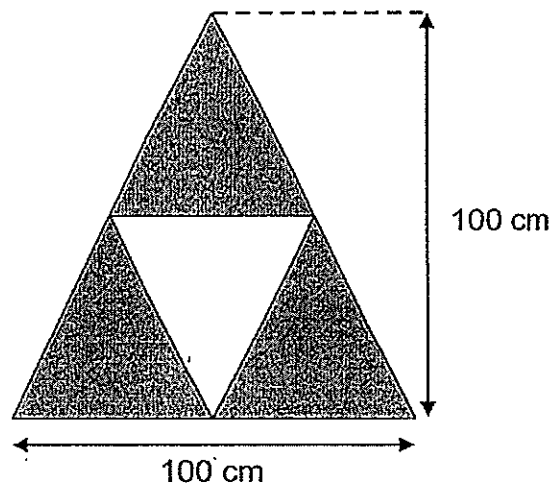
27. Two boys and eight girls have an average savings of \$60. The total savings of the two boys is \$96. What is the average savings of the eight girls?

Answer: \$ \_\_\_\_\_

28. Mr Yaidi bought a jacket for \$34 during a sale. The original price of the jacket was \$40. Find the discount as a percentage of the original cost of the jacket.

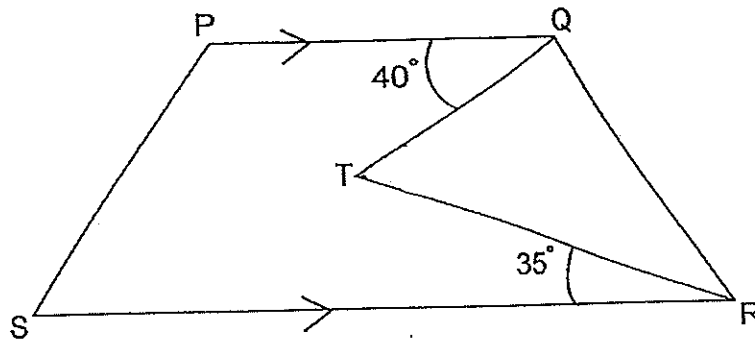
Answer: \_\_\_\_\_ %

29. The figure below is made up of 4 identical triangles. Find the total shaded area.



Answer: \_\_\_\_\_ cm<sup>2</sup>

30. In the figure below, not drawn to scale, PQRS is a trapezium, QTR is a triangle,  $\angle PQT = 40^\circ$  and  $\angle TRS = 35^\circ$ . Find  $\angle QTR$ .



Answer: \_\_\_\_\_<sup>o</sup>

End-of-Paper





Anglo-Chinese School (Primary)

END-OF-YEAR EXAMINATION 2014  
MATHEMATICS  
PAPER 2  
PRIMARY FIVE

Name: \_\_\_\_\_ ( )

Class: Primary 5 \_\_\_\_

Date: 29 October 2014

Duration of Paper 2: 1h 40min.

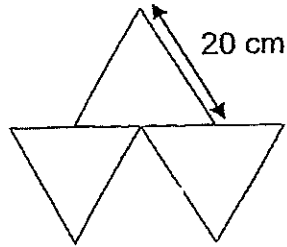
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Parent's/Guardian's signature

**INSTRUCTIONS TO CANDIDATES**

1. This question paper consists of 16 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. You are allowed to use a calculator.

Section	Maximum Marks	Marks Obtained
Paper 2 Section A. Short Answers	10	
Paper 2 Section B. Problem Sums	50	
Total Marks	60	

3. The figure below is made up of 3 identical equilateral triangles. What is the perimeter of the figure?

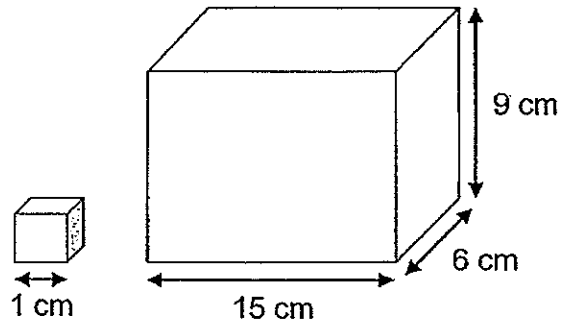


Answer: \_\_\_\_\_ cm

4. Mr Wong paid \$1 926 for a television set including GST of 7%. How much GST did he pay?

Answer: \$ \_\_\_\_\_

5. The cuboid below measures 15 cm long, 6 cm wide and 9 cm high.  
How many 1-cm cubes are needed to fill the cuboid?



Answer: \_\_\_\_\_

For questions 6 to 18, show your steps clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (50 marks)

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6. Billy bought 6 sweets and 10 jellies for \$6.80. If he buys 10 sweets and 5 jellies for \$5.50, find the cost of 1 sweet.

Answer: \_\_\_\_\_ [3]

7. Yvonne has 3 bags, A, B and C. The mass of bag A is  $\frac{3}{4}$  that of bag B. Bag C is  $\frac{1}{2}$  as heavy as bag A. If the mass of bag B is 66 kg, find the mass of bag C. Give your answer in kilograms and grams.

Answer: \_\_\_\_\_ [3]

8. William wanted to buy 7 toy cars but found that he was short of \$35.80. If he were to buy 4 toy cars, he would have \$12.80 left over. How much money did William have?

Answer: \_\_\_\_\_ [3]

9. There are 450 red and black buttons in a container. 62% of the buttons are red. How many fewer black buttons are there than red buttons?

Answer: \_\_\_\_\_ [3]

10. The ratio of Henry's age to Charlie's age is 4 : 5. In 18 years' time, the sum of their ages will be 90 years. What will the ratio of Henry's age to Charlie's age be in 18 years' time?

Answer: \_\_\_\_\_ [3]

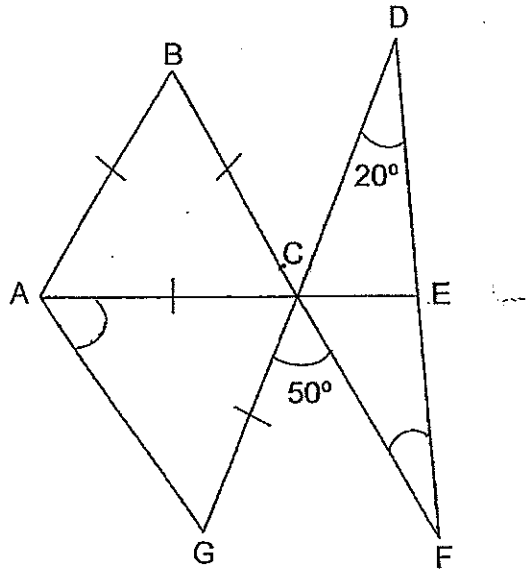
11. There were a total of 600 black and white beads in a box. 40% of the beads were black and the rest were white. After Angie gave away some white beads, the number of black beads left in the box was 80% of the total left. How many white beads did Angie give away?

Answer: \_\_\_\_\_ [4]



12. In the figure below, not drawn to scale, ABC is an equilateral triangle and ACG is an isosceles triangle. BCF, DCG and ACE are straight lines.  $\angle CDF = 20^\circ$  and  $\angle FCG = 50^\circ$ . Find

- a)  $\angle CAG$
- b)  $\angle CFE$



Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

13. Joseph spent  $\frac{4}{7}$  of his money on a drink and a plate of chicken rice and had \$4.20 left. The drink cost  $\frac{1}{7}$  as much as the chicken rice.
- (a) What was the cost of the chicken rice?
- (b) Bruce spent the same amount as Joseph on a drink and a plate of chicken rice and had \$4.40 left. What fraction of Bruce's money was spent on the two items?

Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_ [2]

14. Albert, Bryan, Charlie and Dolly sat for a test. The average score for the test was 75. Albert scored 20 marks higher than Bryan and Charlie scored 30 marks lower than Bryan. Dolly scored 10 marks more than Bryan. How many marks did Albert score?

Answer: \_\_\_\_\_ [4]

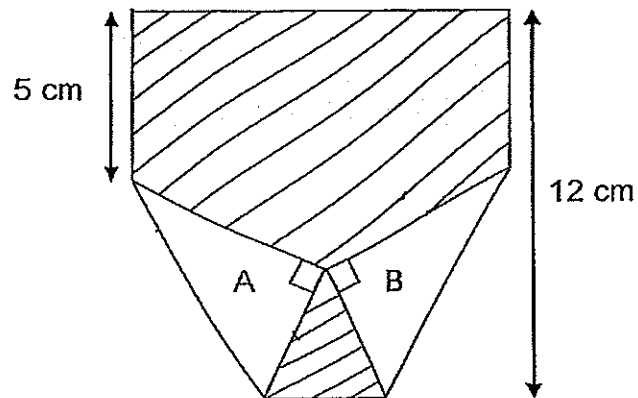
15. There are 5 more pupils in the Art Club than in the Science Club. There are 20 boys in the Art Club and 10 boys in the Science Club. The number of girls in the Art Club is  $\frac{3}{4}$  that of the number of girls in the Science Club.

What percentage of the members in the Science Club are girls?

(Give your answer to correct to 1 decimal place.)

Answer: \_\_\_\_\_ [4]

16. Charles attended an origami lesson during the September holidays. He folded two corners of a piece of square paper and shaded the paper as shown below. Triangle A and Triangle B are identical. Find the total area of the shaded part.



Answer: \_\_\_\_\_ [5]

17. The ratio of the number of blue pens to the number of green pens in a box is 4 : 9. After Tom added another 36 blue pens, there are now ~~12~~<sup>24</sup> more green pens than blue pens in the box.

Find

- (a) the total number of pens in the box at first  
(b) the ratio of the number of blue pens to the number of green pens in the end (Give your answer in its simplest form.)

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

18. The figure below shows a pattern formed using some straws.



(a) How many straws are used to form 13 squares?

(b) How many squares are formed using 100 straws?

Answer: (a) \_\_\_\_\_ [3]

(b) \_\_\_\_\_ [2]

End-of-Paper





**Anglo-Chinese School (Primary)**  
**End-of-Year Examination 2014**  
**Mathematics**  
**Primary 5**

- 1) 2
- 2) 4
- 3) 4
- 4) 2
- 5) 3
- 6) 4
- 7) 3
- 8) 1
- 9) 3
- 10) 1
- 11) 1
- 12) 2
- 13) 2
- 14) 4
- 15) 2
- 16) 30 476
- 17) 45
- 18) 40
- 19) 24
- 20)  $7/20$
- 21)  $1/2 : 3/4$   
2 : 3
- 22) 144 country erasers
- 23)  $(35+16)-8*2 = 51-16 = 35$
- 24)  $93^\circ$
- 25)  $54^\circ$
- 26)  $45^\circ$
- 27)  $\$60*10 = \$600$   
 $\$600-\$96 = \$504$   
 $\$504/8 = \$63$
- 28)  $\$40 - \$34 = \$6$   
 $6/40*100\% = 15\%$
- 29)  $1/2*100*100 = 5000 \text{ cm}^2$   
 $3/4*5000 = 3750 \text{ cm}^2$
- 30) Draw a parallel line to PQ & SR, through T  
 $40+35 = 75^\circ$

**Paper 2**

- 1)  $(30-10-10)/2 = 5 \text{ cm}$   
 $1/2*5*10 = 25 \text{ cm}^2$
- 2)  $18*\$0.50 = \$9$   
 $\$9/\$3 = 3 \text{ cups}$
- 3)  $20*7 = 140 \text{ cm}$

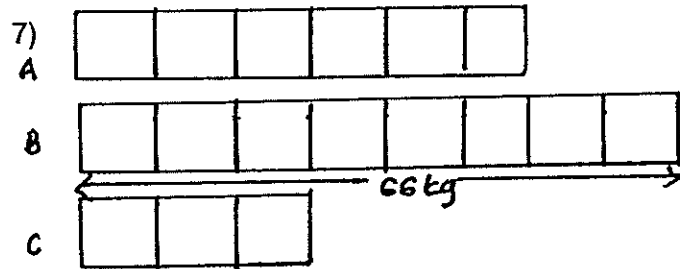
4)  $107\% \rightarrow \$1926$   
 $7\% \rightarrow 7/107 * \$1926 = \$126$

5)  $15 * 6 * 9 = 810$  cubes

6) 10 sweets + 5 jellies  $\rightarrow$  \$5.50  
 2 sets,  
 20 sweets + 10 jellies  $\rightarrow$  \$11  
 6 sweets + 10 jellies  $\rightarrow$  \$6.80

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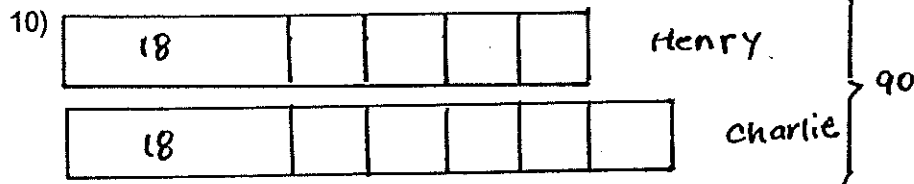
Difference: 14 sweets  $\rightarrow$   $\$11 - \$6.80 = \$4.20$   
 1 sweet  $\rightarrow$   $\$4.20 / 14 = \$0.30$



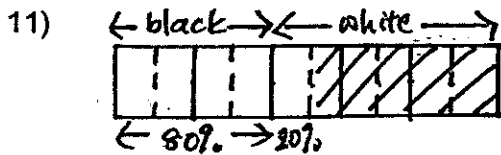
$66 / 8 * 3 = 24.75$  kg = 24kg 750g

8)  $\$12.80 + \$35.80 = \$48.60$   
 $7 - 4 = 3$   
 $\$48.60 / 3 = \$16.20$   
 $\$16.20 * 4 = \$64.80$   
 $\$64.80 + \$12.80 = \$77.60$

9)  $100\% - 62\% = 38\%$   
 $62\% - 38\% = 24\%$   
 $100\% \rightarrow 450$   
 $24\% \rightarrow 24/100 * 450 = 108$  fewer black buttons.

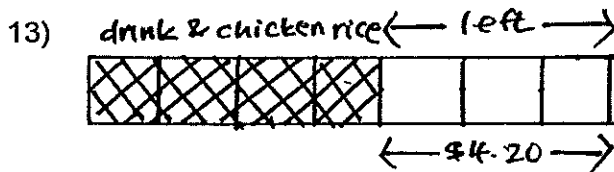


$90 - 18 - 18 = 54$   
 $54 / 9 = 6$   
 $6 * 4 = 24$   
 $24 + 18 = 42$  (Henry)  
 $6 * 5 = 30$   
 $30 + 18 = 48$  (Charlie)  
 $42 : 48$   
 $7 : 8$

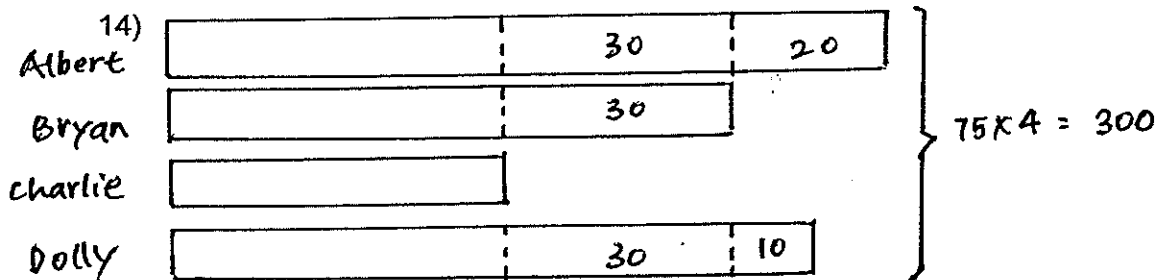


$2/5 \cdot 600 = 240$  (black beads)  
 $600 - 240 = 360$  (white beads)  
 $80\% \rightarrow 240$   
 $20\% \rightarrow 20/80 \cdot 240 = 60$   
 $360 - 60 = 300$  white beads

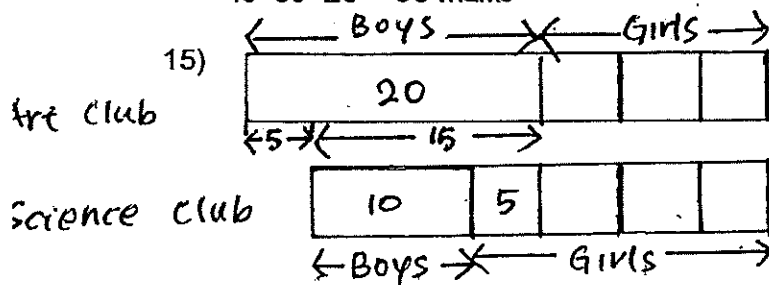
- 12) Angle CDF =  $180 - 50 = 130^\circ$   
 Angle ACG =  $130 - 60 = 70^\circ$   
 a) Angle CAG =  $(180 - 70)/2 = 55^\circ$  (base angle of isosceles triangle)  
 b) Angle CFE =  $50 - 20 = 30^\circ$  (exterior angle of a triangle)



- a)  $3u \rightarrow \$4.20$   
 $4u \rightarrow 4/3 \cdot \$4.20 = \$5.60$   
 $8u \rightarrow \$5.60$   
 $7u \rightarrow 7/8 \cdot \$5.60 = \$4.90$   
 b)  $\$5.60 + \$4.40 = \$10$   
 $5.60/10 = 14/25$

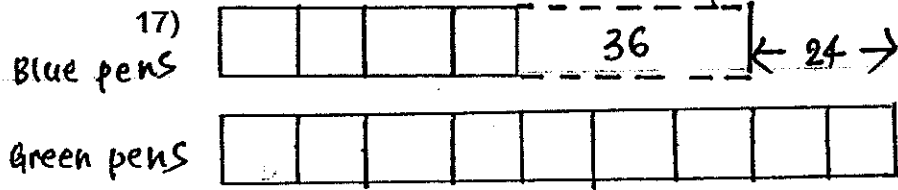


$300 - 40 - 30 - 50 = 180$   
 $180/4 = 45$   
 $45 + 30 + 20 = 95$  marks



$5 \cdot 4 = 20$   
 $20/30 \cdot 100\% = 66.7\%$

16)  $12/3 = 4 \text{ cm}$   
 $12-5 = 7 \text{ cm}$   
 $1/2 * 4 * 7 * 2 * 2 = 56 \text{ cm}^2$   
 $144-56 = 88 \text{ cm}^2$



a)  $36+24 = 60$   
 $9-4 = 5$   
 $60/5 = 12$   
 $12 * 13 = 156 \text{ pens at first}$

b)  $12 * 4 = 48$   
 $48+36 = 84$   
 $12 * 9 = 108$   
 $84 : 108$   
 $7 : 9$

18a) 1 square  $\rightarrow 4+3(0)$  straws  
 2 squares  $\rightarrow 4+3(1)$  straws  
 3 squares  $\rightarrow 4+3(2)$  straws  
 4 squares  $\rightarrow 4+3(3)$  straws  
 .  
 .  
 .  
 13 squares  $\rightarrow 4+3(12) = 40$  straws

b)  $100-4 = 96$   
 $96/3 = 32$   
 $32+1 = 33$  squares