



# AI TONG SCHOOL

2014

## END OF YEAR EXAMINATION

PRIMARY 5

### MATHEMATICS Paper 1 (Booklet A and B)

DURATION : 50 min

DATE : 24 October 2014

#### INSTRUCTIONS

Do not open the booklet until you are told to do so.

Follow all instructions.

Answer all questions.

You are not allowed to use a calculator.

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

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

Marks:

Parent's Signature : _____	
Date	:

Paper 1	40
Paper 2	60
Total	100

**Paper 1 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

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1 Which of the following is one hundred and fifty thousand and three in figures?

- (1) 1153
- (2) 50 103
- (3) 115 003
- (4) 150 003

2 What is the value of  $300 + 4 \times 20 \div 5$ ?

- (1) 76
- (2) 308
- (3) 316
- (4) 1216

3 How many fifths are there in  $3\frac{2}{5}$ ?

- (1) 11
- (2) 15
- (3) 17
- (4) 32

4 Express 150 g as a fraction of 2 kg in the simplest form.

- (1)  $\frac{1}{75}$
- (2)  $\frac{3}{40}$
- (3)  $\frac{3}{20}$
- (4)  $\frac{3}{4}$

- 5 The ratio of Ming Hao's mass to Jun Wei's mass is 5 : 7. The difference between their masses is 14 kg. What is their total mass?

- (1) 35 kg
- (2) 49 kg
- (3) 84 kg
- (4) 168 kg

- 6 What is the value of  $25.12 \times 200$ ?

- (1) 5.024
- (2) 50.24
- (3) 502.4
- (4) 5024

- 7 Miss Asrini baked 90 cupcakes. 60% of the cupcakes were blueberry and the rest were chocolate. How many chocolate cupcakes were there?

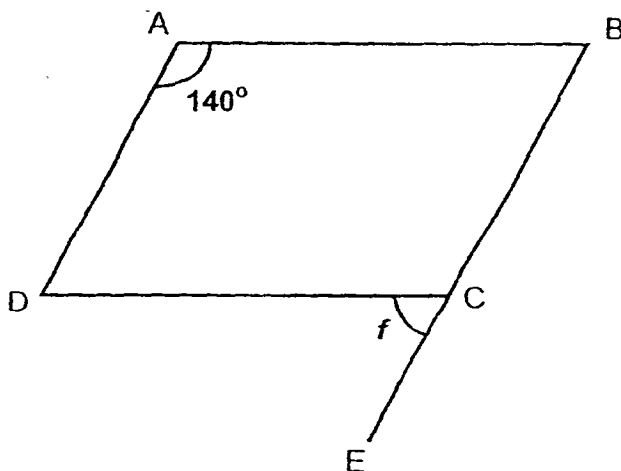
- (1) 36
- (2) 40
- (3) 54
- (4) 60

- 8 The table below shows the number of books borrowed from Monday to Wednesday. What was the average number of books borrowed per day?

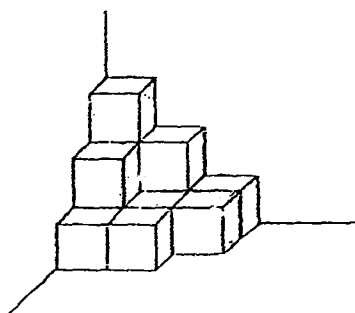
Monday	58
Tuesday	42
Wednesday	35

- (1) 45
- (2) 43
- (3) 42
- (4) 40

- 9 The figure below is not drawn to scale. ABCD is a parallelogram. BCE is a straight line. Find  $\angle f$ .



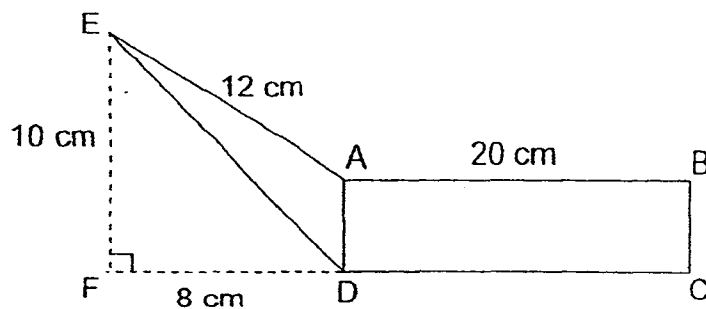
- (1)  $40^\circ$   
(2)  $80^\circ$   
(3)  $140^\circ$   
(4)  $220^\circ$
- 10 The solid figure shown below is made up of 1-cm cubes. What is the volume of the solid?



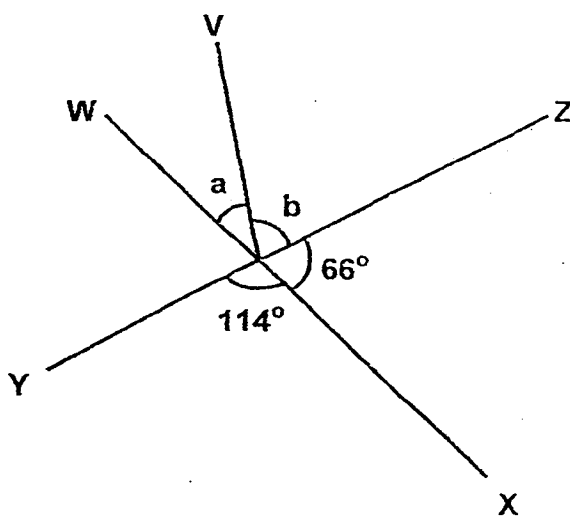
- (1)  $8 \text{ cm}^3$   
(2)  $11 \text{ cm}^3$   
(3)  $12 \text{ cm}^3$   
(4)  $14 \text{ cm}^3$

- 11 Amy has \$4.90 more than Cathy. Betty has twice as much money as Cathy. If the three girls have \$23.50 altogether, how much money does Amy have?
- (1) \$12.00
  - (2) \$9.55
  - (3) \$7.10
  - (4) \$4.65
- 12 Weimin folded 180 paper stars.  $\frac{2}{9}$  of them were blue, 50 of them were red and the rest were green. How many paper stars were green?
- (1) 20
  - (2) 40
  - (3) 90
  - (4) 130
- 13 A rectangular container measuring 20 cm by 30 cm by 10 cm is filled to the brim with oil. Joanna pours out 2 l 250 ml of oil from the container. How much oil is left in the container?
- (1) 37 l 50 ml
  - (2) 3 l 750 ml
  - (3) 3 l 75 ml
  - (4) 375 ml

- 14 The figure below is made up of rectangle ABCD and triangle AED. Rectangle ABCD has an area of  $100 \text{ cm}^2$ . AB is 20 cm, AE is 12 cm, EF is 10 cm and DF is 8 cm. Find the area of triangle AED.



- (1)  $20 \text{ cm}^2$   
 (2)  $30 \text{ cm}^2$   
 (3)  $40 \text{ cm}^2$   
 (4)  $60 \text{ cm}^2$
- 15 In the figure below, not drawn to scale, WX and YZ are straight lines.  $\angle b$  is twice the size of  $\angle a$ . Find  $\angle a$ .



- (1)  $22^\circ$   
 (2)  $33^\circ$   
 (3)  $38^\circ$   
 (4)  $57^\circ$

**Booklet B**

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 Round off 989 567 to the nearest thousand.

Ans: \_\_\_\_\_

- 17 Arrange the following digits to form the smallest 4-digit even number.

9	2	5	0
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Ans: \_\_\_\_\_

- 18 What is the missing number in the box?

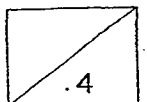
$$\frac{2}{12} = \frac{\boxed{\phantom{000}}}{30}$$

Ans: \_\_\_\_\_

- 19 Find the sum of  $\frac{3}{4}$  and  $\frac{2}{5}$ .

Give your answer as a mixed number in the simplest form.

Ans: \_\_\_\_\_



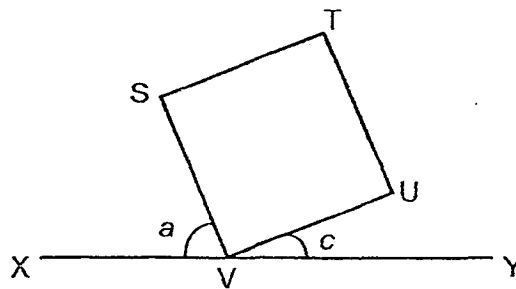
- 20 Lin Xuan's mobile phone cost \$250. She had to pay an additional 7% for GST. How much GST did she have to pay?

Ans\$ \_\_\_\_\_

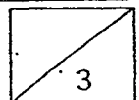
- 21 At a business meeting, 5 businessmen shook one another's hands. Each businessman shook hands with every other businessman only once. How many handshakes were made?

Ans: \_\_\_\_\_

- 22 The figure below is not drawn to scale.  $XVY$  is a straight line and  $STUV$  is a square. Find the sum of  $\angle a$  and  $\angle c$ .



Ans: \_\_\_\_\_

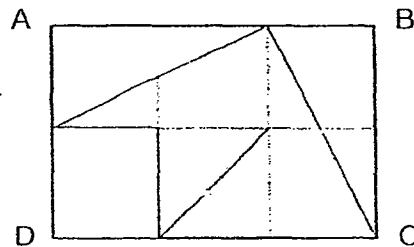




- 23 5 children donated \$203. One of them donated \$19. What was the average amount donated by the other 4 children?

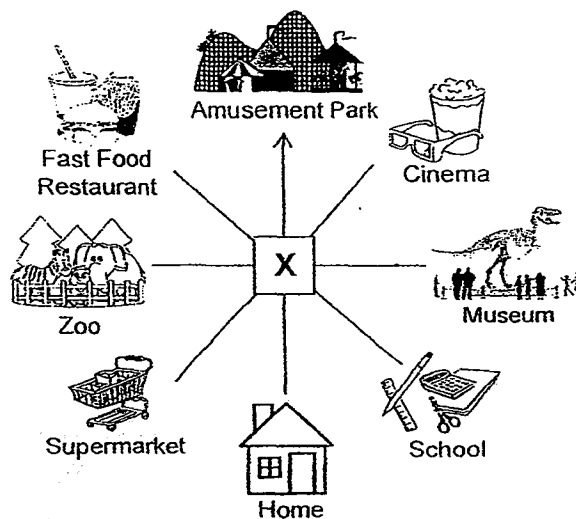
Ans: \$ \_\_\_\_\_

- 24 The figure ABCD below is made up of 6 identical squares. What fraction of the figure ABCD is shaded? Give your answer in the simplest form.

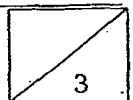


Ans: \_\_\_\_\_

- 25 Jun Wei was standing at point X. After making a  $\frac{1}{4}$ -turn anti-clockwise, Jun Wei was facing the Cinema. Where was he facing at first?



Ans: \_\_\_\_\_



Questions 26 to 30 carry 2 marks each. Show your working 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. (10 marks)

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- 26 Alfie has  $\frac{2}{5}$  as many marbles as Bala and  $\frac{1}{3}$  as many marbles as Caleb. Caleb has 114 marbles. How many marbles does Bala have?

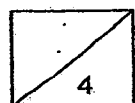
Ans: \_\_\_\_\_

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- 27 5 bottles of juice can fill a juice box measuring 15 cm by 7 cm by 20 cm to the brim. How much juice is there in each bottle? Express your answer in litres.

Ans: \_\_\_\_\_ l

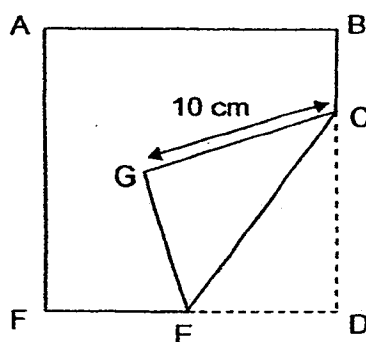
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- 28 The average of four numbers is 60. After one new number is added in, the average of these five numbers is 56. What is the value of the new number?

Ans: \_\_\_\_\_

- 29 A square piece of paper ABDF is folded at a corner as shown below. Given that CG is 10 cm and the length of CD is twice the length of BC, find the area of the square ABDF.

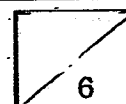


Ans: \_\_\_\_\_ cm<sup>2</sup>

- 30 Ranjit has 50 toy cars. 12% of them are black. He has 10 more red cars than black and the rest are blue. What percentage of his toy cars are blue?

Ans: \_\_\_\_\_

End of Paper  
— CHECK YOUR WORK CAREFULLY —





AI TONG SCHOOL

2014

END OF YEAR EXAMINATION

PRIMARY 5

**MATHEMATICS**  
**Paper 2**

**DURATION** : 1 h 40 min

**DATE** : 24 October 2014

**INSTRUCTIONS**

Do not open the booklet until you are told to do so.

Follow all instructions.

Answer all questions.

You are allowed to use a calculator.

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

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

**Marks:**

Paper 2	60
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**Parent's Signature** : \_\_\_\_\_

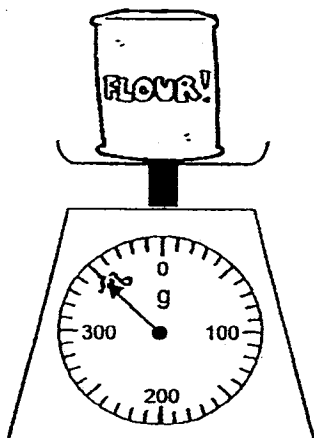
**Date** : \_\_\_\_\_

**Paper 2**

Questions 1 to 5 carry 2 marks each. Show your working 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. (10 marks)

- 1 A shop charges \$0.60 for every 50 g of flour. How much would the bag of flour shown below cost?



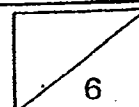
Ans: \$ \_\_\_\_\_

- 2 Ahmad has \$2560 in his savings account. The bank pays him an annual interest of 1.5%. How much money will he have in his savings account after a year if he does not withdraw any money?

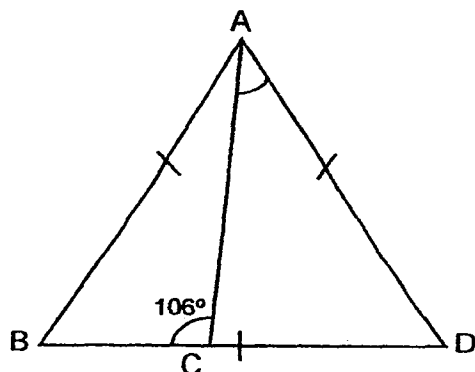
Ans: \$ \_\_\_\_\_

- 3 Last week from Monday to Friday, Fiona jogged an average of 3.4 km a day. She did not jog at all on Saturday and Sunday. What was the average distance she jogged last week? Express your answer as a decimal rounded off to the nearest hundredth.

Ans: \_\_\_\_\_ km



- 4 In the figure, not drawn to scale, ABD is an equilateral triangle.  $\angle ACB = 106^\circ$ . Find  $\angle CAD$ .

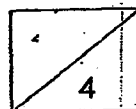


Ans: \_\_\_\_\_

- 5 The picture below shows Ming Hwa's report card. However, her baby sister scribbled on her report card. Ming Hwa scored an average of 84 marks for four subjects. She scored the same marks for Chinese and Mathematics. How many marks did she get for Mathematics?

Report Card	
Name: Goh Ming Hwa	
Class: 5D	
Subject	Marks
English	83
Chinese	
Mathematics	
Science	81

Ans: \_\_\_\_\_



For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided.  
The number of marks available is shown in the brackets [ ] at the end of each question or per question. (50 marks)

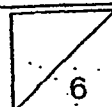
- 6 There were 40 kg of rice in Container A and 3.6 kg of rice in Container B at first. After Mrs Lee poured an equal amount of rice into each container, the amount of rice in Container A became 8 times that of Container B. How much rice did Mrs Lee pour into each container?

Ans: \_\_\_\_\_ [3]

- 7 The cost of perfume is shown in the table below.  
How much must a customer pay for 30 ml of perfume?

Volume of Perfume	Cost
1 <sup>st</sup> 10 ml	\$28
For every additional 5 ml	\$15.20

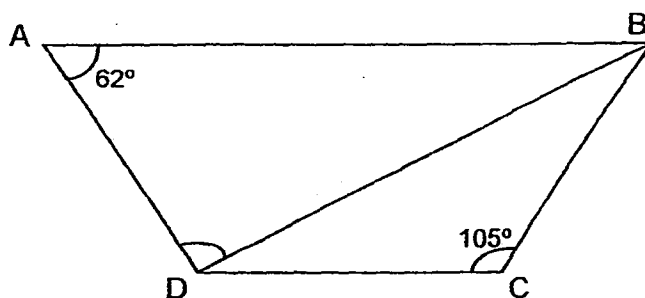
Ans: \_\_\_\_\_ [3]



- 8 Jessie spent  $\frac{2}{9}$  of her pocket money on stationery,  $\frac{2}{5}$  of the remainder on books and saved the rest. She saved \$126. How much was her pocket money?

Ans : \_\_\_\_\_ [3]

- 9 The figure below is not drawn to scale. ABCD is a trapezium.  $BC = DC$ . Find  $\angle ADB$ .



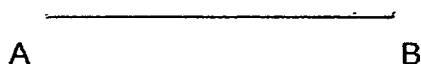
Ans: \_\_\_\_\_ [3]



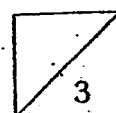
10 In the space below,  $\overline{AB}$  is a straight line.

(a) Draw a triangle ABC in which  $BC = 5$  cm and  $\angle ABC = 130^\circ$ . [2]

(b) Measure and write down the length of the line AC.



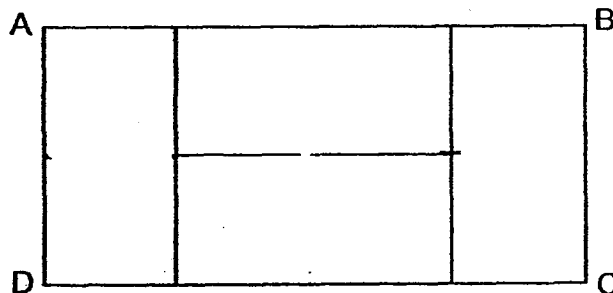
Ans: (b) \_\_\_\_\_ [1]



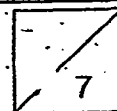
- 11 Dan and Ali shared some money in the ratio 7 : 3. After Dan had spent \$104 and Ali received another \$28, they had an equal amount of money each. How much was Dan's share?

Ans: \_\_\_\_\_ [3]

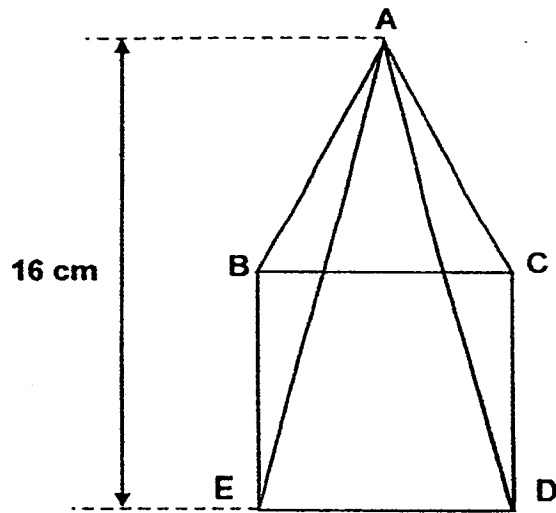
- 12 The figure below shows a rectangle ABCD which is made up of four identical rectangles. The area of rectangle ABCD is  $128 \text{ cm}^2$ . The length and breadth of the rectangles are whole numbers. Find the perimeter of rectangle ABCD.



Ans: \_\_\_\_\_ [4]

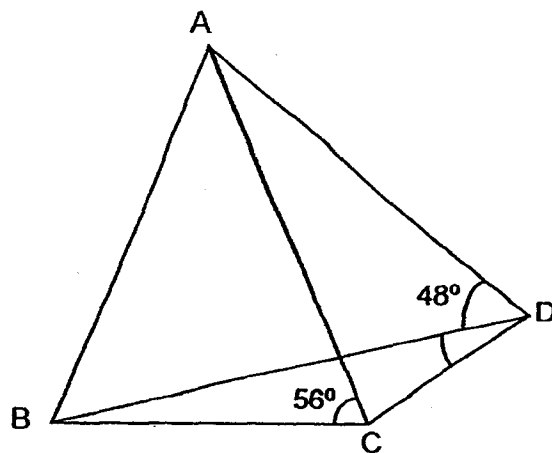


- 13 The figure below is formed by a triangle ABC and a square BCDE. The area of the square BCDE is  $81 \text{ cm}^2$ . Find the area of the shaded parts.



Ans: \_\_\_\_\_ [4]

- 14 In the diagram below, not drawn to scale,  $AB = AC = AD$ .  
 $\angle ACB = 56^\circ$  and  $\angle ADB = 48^\circ$ . Find  $\angle BDC$ .



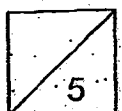
Ans: \_\_\_\_\_ [4]

- 15  $\frac{2}{3}$  as many girls as boys went to a funfair. 2 tokens were given to each girl and 4 tokens were given to each group of 3 boys. A total of 320 tokens were given out.

- (a) How many boys were there at the funfair?  
(b) How many tokens did the boys receive in total?

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

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



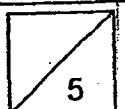
- 16 There were 140 T-shirts on sale.  $\frac{3}{5}$  of them were white and the rest were black.

When some of the white T-shirts were sold, the ratio of the white T-shirts to black T-shirts left was 5 : 8.

- (a) How many black T-shirts were there?  
(b) How many white T-shirts were sold?

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

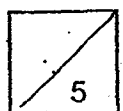
(b) \_\_\_\_\_ [3]



- 17 A tank measuring 24 cm by 15 cm by 20 cm is  $\frac{4}{5}$  filled with water. This amount of water is then transferred into a cubical container of side 20 cm.
- (a) Find the amount of water in the tank at first.
- (b) How much more water is needed to fill the cubical container to the brim?

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

(b) \_\_\_\_\_ [3]



- 18 At a bag shop, a backpack cost \$30 more than a sling bag. The two items cost \$105 altogether. During the Great Singapore Sale, there was a storewide discount of 20% given to all customers. Members of the shop enjoyed an additional 10% off the discounted price. Claudia, a member of the shop, bought a backpack and a sling bag during the Great Singapore Sale.
- (a) What was the usual price of the sling bag?
- (b) How much did Claudia pay in total for the backpack and the sling bag during the Great Singapore Sale?

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

(b) \_\_\_\_\_ [3]

End of Paper  
— CHECK YOUR WORK CAREFULLY —





## EXAM PAPERS 2014

SCHOOL: AI TONG SCHOOL  
SUBJECT: MATHEMATICS  
LEVEL: PRIMARY 5  
TERM: SA 2

### PAPER 1 BOOKLET A

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

### BOOKLET B

Q16 990000  
Q17 2590  
Q18 5  
Q19  $1\frac{3}{20}$   
Q20 \$1,750  
Q21 10  
Q22 90  
Q23 \$46  
Q24  $\frac{5}{12}$   
Q25 School  
Q26 95  
Q27 0.42ℓ  
Q28 40  
Q29 225  
Q30 56%

### PAPER 2

Q1  $0.60 \times 7 = 4.20$   
Ans: \$4.20  
Q2  $2560 / 100 \times 101.50 = 25984 / 10 = \$2598.40$   
Ans: \$2598.40  
Q3  $3.4 \times 5 = 17$   
 $17 \div 7 \approx 2.43$   
Ans: 2.43km  
Q4  $106 + 60 = 166$   
 $180 - 166 = 14$   
 $60 - 14 = 46$   
Ans: 46°  
Q5  $84 \times 4 = 336$   
 $83 + 81 = 164$   
 $336 - 164 = 172$   
 $172 \div 2 = 86$   
Ans: 86

Q6  $40 - 3.6 = 36.4$

$36.4 \div 7 = 5.2$

$5.2 - 3.6 = 1.6$

Ans: 1.6kg

Q7  $4 \times 15.20 = 60.80$

$60.80 + 28 = 88.80$

Ans: \$88.80

Q8  $126 / 3 \times 5 = 210$

$210 / 7 \times 9 = 270$

Ans: \$270

Q9  $180 - 105 = 75$

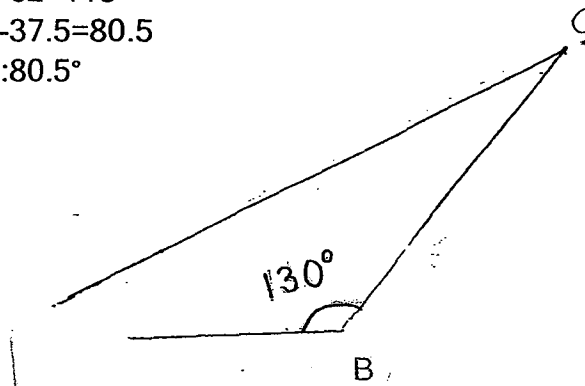
$75 \div 2 = 37.5$

$180 - 62 = 118$

$118 - 37.5 = 80.5$

Ans:  $80.5^\circ$

Q10 a)



b) 9cm

Q11  $104 + 28 = 132$

$132 / 4 \times 7 = 231$

Ans: \$231

Q12  $728 \div 2 = 64$

$64 = 8 \times 8$

$8 \times 2 = 16$

$16 \times 3 = 48$

Ans: 48cm

Q13  $81 = 9 \times 9$

$16 - 9 = 7$

$1/2 \times 7 \times 9 = 31.5$

$31.5 + 81 = 112.5$

$1/2 \times 16 \times 9 = 72$

$112.5 - 72 = 40.5$

Ans:  $40.5\text{cm}^2$

Q14  $180 - 56 - 56 = 68$

$\angle BAC \rightarrow 180 - 48 - 48 = 84$

$\angle CAD \rightarrow 84 - 68 = 16$

$180 - 16 = 164$

$\angle ACD \rightarrow 164 \div 2 = 82$

$\angle BDC \rightarrow 82 - 48 = 34$

Ans:  $34^\circ$

Q15  $4 + 4 = 8$

$320 \div 8 = 40$

$40 \times 3 = 120$   
 $120 / 3 \times 4 = 160$   
Ans: a) 120  
b) 160

Q16            W : B  
Before    3:2  
After     5:8  
            W:B  
Before    24:16  
After     10:16  
 $140 / 40 \times 14 = 49$   
Ans: a) 56

                b) 49  
Q17     $24 \times 15 \times 20 = 7200$   
           $7200 / 5 \times 4 = 5760$   
           $20 \times 20 \times 20 = 8000$   
           $8000 - 5760 = 2240$   
          Ans: a) 5760ml  
                b) 2240ml

Q18     $105 - 30 = 75$   
           $75 \div 2 = 37.50$   
           $105 / 100 \times 80 = 840 / 10 = 84$   
           $84 / 100 \times 90 = 756 / 10 = 75.60$   
          Ans: a) \$37.50  
                b) \$75.60