# Anglo-Chinese School (Junior)

## END-OF-YEAR EXAMINATION (2024)

**PRIMARY 5**
**MATHEMATICS**
**PAPER 1**
(Booklet A)

**28 October 2024**

**Total Time for Booklets A and Booklet B : 1 hour**

Name: _____( ) Class: 5.( )

**INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a 2B pencil to shade your answers on the Optical Answer Sheet (OAS).
5. The use of calculators is **NOT** allowed.

This booklet consists of 8 printed pages.

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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) and shade your answer **(1,** 2, 3 or 4) on the Optical Answer Sheet **(OAS).** **(20 marks)**

1 What is the value of digit 5 in 1.528?

1) 5 ones

2) 5 tenths

3) 5 hundredths

4) 5 thousandths

2 Round 356 789 to the nearest thousand.

1) 356 000

2) 356 800

3) 357 000

4) 358 000

3 Arrange from the largest to the smallest: **0.7,** 0.707, 0.77.

1) 0.7 , 0.77 , 0.707

2) 0.77 , 0.7 , 0.707

3) 0.77 , 0.707 , 0.7

4) 0.707 , 0.77 , 0.7

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4 What is the value of $30 - (7 + 5) \div 2 \times 3$ ?

1) 12

2) 27

3) 28

4) 42

5 Which fraction is equal to 14 sixths?

1) $1\frac{4}{6}$

2) $2\frac{1}{3}$

3) $6\frac{1}{14}$

4) $14\frac{1}{6}$

6 Which of the following fractions is greater than $\frac{1}{2}$?

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

2) $\frac{4}{7}$

3) $\frac{5}{10}$

4) $\frac{6}{13}$

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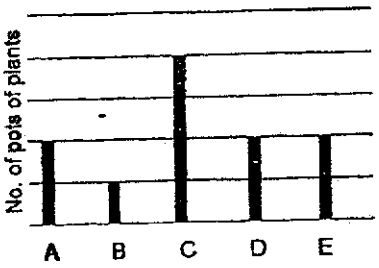
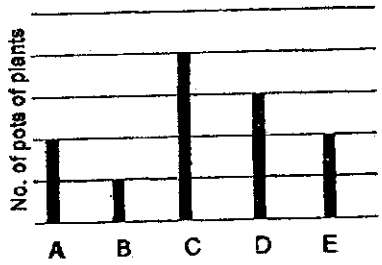
7 The table shows the number of pots of plants owned by 5 members of a gardening club.

| Members | A | B | C | D | E |
|---|---|---|---|---|---|
| Number of pots of plants | 10 | 5 | 20 | 10 | 15 |

Which of the following bar graphs represents the information shown in the table above?




2)

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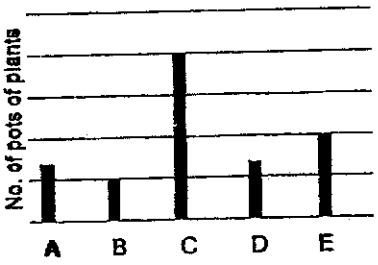


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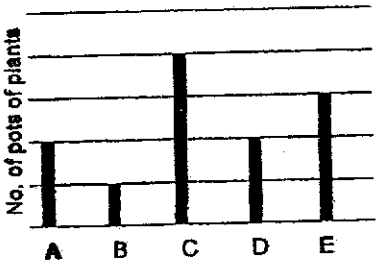


8 What is 7% of 400?

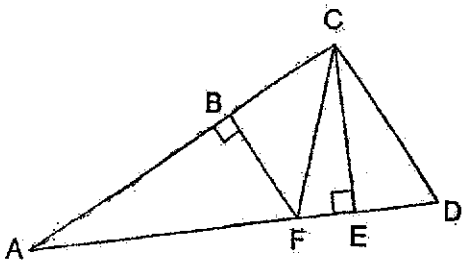
1) 2.8

2) 28

3) 280

4) 2800

9 AC is the base of the triangle ACF. Find its height.




1) AD

2) BF

3) CE

4) FC

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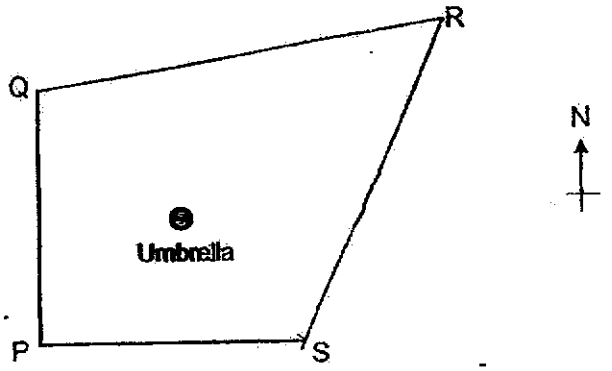
10 A picnic umbrella is placed in a garden with corners P, Q, R and S as shown below. The umbrella is north-west to one of the corners. Which is the corner?




1) P

2) Q

3) R

4) S

11 Meili types 405 words in 10 minutes. How many words can she type in 2 hours?

1) 2430

2) 4050

3) 4860

4) 8100

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12 $\frac{2}{3}$ of the people at a party are children. $\frac{1}{4}$ of the remainder are men and the rest are women. There are 20 more children than women. How many men and women are there at the party?

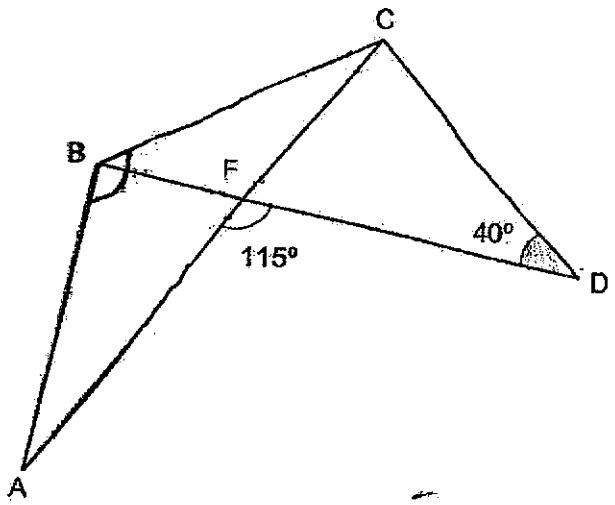
1) 16

2) 32

3) 48

4) 4

13 In the figure, AEC and BED are straight lines. AB = BC = CD. Find ∠ABC.




1) 65°

2) 100°

3) 115°

4) 130°

14 The total capacity of 2 identical jugs is the same as the total capacity of 3 identical cups. 3.6 ℓ of water are used to fill 4 jugs and 2 cups completely. What is the capacity of a cup?

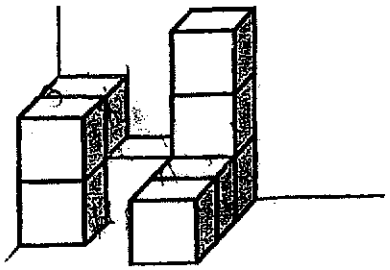
1) 0.45 ℓ

2) 0.36 ℓ

3) 0.9 ℓ

4) 0.6 ℓ

15 Benjamin glued together some unit cubes to form the solid as shown. How many more unit cubes does Benjamin need to form the smallest possible cube?



1) 10

2) 17

3) 26

4) 38

**End of Booklet A**

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# Anglo-Chinese School (Junior)

## END-OF-YEAR EXAMINATION (2024)

**PRIMARY 5**
**MATHEMATICS**
**PAPER 1**
(Booklet B)

**28 October 2024**

**Total Time for Booklets A and Booklet B : 1 hour**

Name:_____( ) Class: 5. ( )

**INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of calculators is **NOT** allowed.
6. Do not use correction fluid/tape.
7. Do not use highlighters on any part of your answers.

This question paper consists of 11 printed pages and 1 blank page.

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Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers to the units stated. (5 marks)

16 Write two hundred and twelve thousand, five hundred and four in numerals.

Ans : _____

17 A flight took off from Singapore at 21 55 and arrived in Dubai at 04 15 the next day. How long was the flight? Give your answer in hours and minutes.

Ans : _____ h _____ min

18 There are 18 boys in a class of 40 students. What is the ratio of the number of girls to the number of boys to the total number of students in the class? Express your answer in the simplest form.

Ans : _____

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Sub-Total : _____

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19 Express $1\frac{3}{7}$ as a decimal. Give your answer correct to 2 decimal places.

Ans : _____

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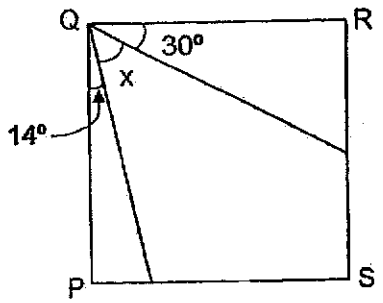
20 In the figure, PQRS is a square. Find ∠x.




Ans : _____°

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Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which requires units, give your answers in the units stated.

(20 marks)

21 Bernice visited cities A, B, C and D. The table shows the temperatures of these cities.

| City | Lowest Temperature (°C) | Highest Temperature (°C) |
|---|---|---|
| | 11 | 17 |
| B | 16 | 31 |
| C | 23 | 33 |
| D | 6 | 22 |

(a) When Bernice was in some of these cities, the temperature was 25°C. Name the cities.

Ans : (a) Cities _____

(b) The table shows the number of students with the following scores.

| Scores | 15 | 17 | 18 | 19 | 20 | 23 | 25 |
|---|---|---|---|---|---|---|---|
| Number of students | 3 | 4 | 2 | 9 | 5 | 3 | 1 |

A higher score means a better performance. Prizes were given to the top 9 students. Callan won a prize. What was the lowest score he could have achieved?

Ans : (b) _____

Sub-Total : [ ]

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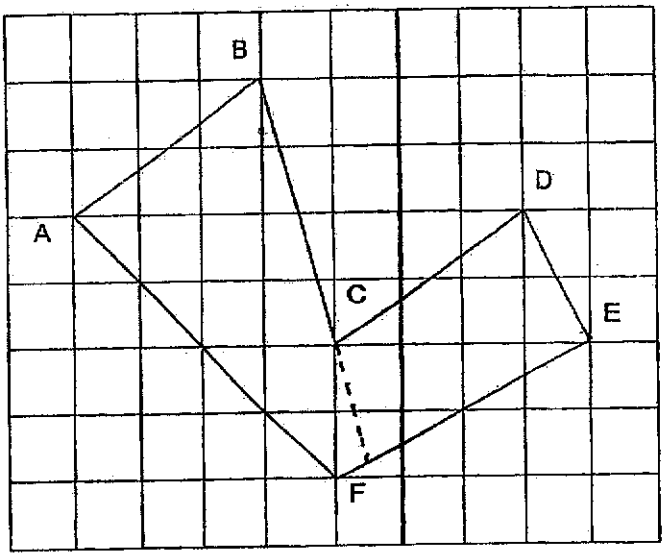
22 **Six** lines are drawn in the square grid.




**(a)** Name the two lines that are parallel to each other.

Ans : **(a)** _____ and _____

**(b)** Name the line that is perpendicular to EF.

Ans : **(b)** _____

Sub-Total :

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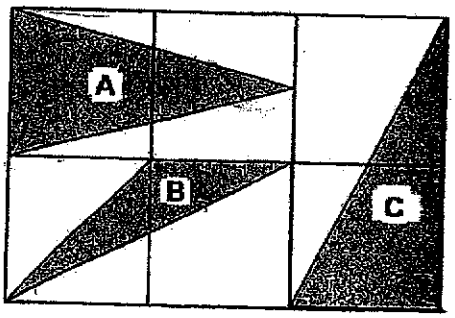
23 Zayn bought a microwave oven. He made a deposit of $280 and paid the remaining amount in 5 monthly payments of $65.20. How much did the oven cost?

Ans : $ _____

24 The figure below is made up of 6 identical squares. 3 shaded triangles, A, B and C are drawn in the figure.




What fraction of the figure is shaded?

Ans : _____

Sub-Total :

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25 Mr Koh **deposited $7000** in the bank. The bank paid **2.5% interest** at the end of each year. **How much** money did he have in the bank at the **end** of one year?

Ans : $_____

26 Cookies were **sold** at mass as shown.

| | |
|---|---|
| First **200 g** | $7 |
| **Every additional** 50g or less | $3 |

Sarah bought **$16** worth of cookies. **What** is the maximum **mass** of cookies she could have **bought?**

Ans : _____ g

**Sub-Total :**

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27 Mrs Koh made $\frac{7}{8}\ell$ of orange squash. She drank $\frac{1}{3}$ of it and added $\frac{1}{4}\ell$ of water to the orange squash. What is the volume of orange squash in the end? Express your answer in the simplest form.

Ans : _____ $\ell$

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28 The first four figures of a pattern are shown below.

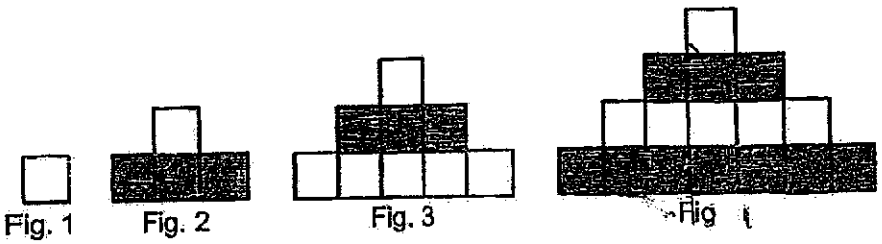

Fig. 1 Fig. 2 Fig. 3 Fig. 4

The table shows the number of white and grey squares used for each figure.

| Figure Number | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Number of white squares | 1 | 1 | 6 | 6 |
| Number of grey squares | 0 | 3 | 3 | 10 |

What is the total number of white and grey squares in Figure 32?

Ans : _____

Sub-Total :

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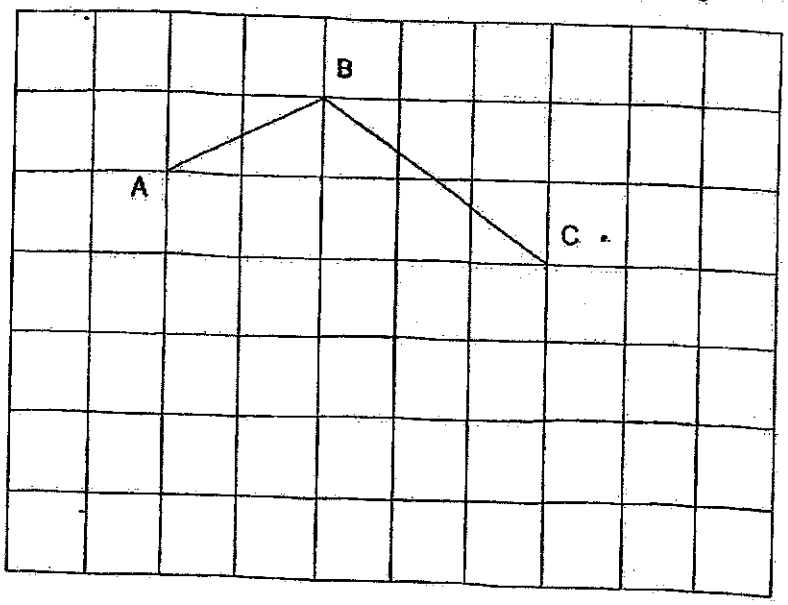
29 ABCD is a trapezium. Vertices ABC are drawn on the square grid below.




(a) Complete the trapezium ABCD such that AD is twice the length of BC.

(b) Measure ∠ADC.

Ans : (a) _____ °

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30 Four classes A, B, C and D washed cars to raise money for a charity. Classes A and B raised a total of $280. Classes B, C and D together raised $308. The total amount of money raised by all 4 classes is 6 times the amount that class B raised. How much money did class A raise?

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Ans : $_____

End of Booklet B

Sub-Total :

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# Anglo-Chinese School (Junior)

## END-OF-YEAR EXAMINATION (2024)

**PRIMARY 5**
**MATHEMATICS**
**PAPER 2**

**28 October 2024**

**Time : 1 hour 30 minutes**

Name: _____( ) Class: 5.( )

Parent's Signature: _____

**INSTRUCTIONS TO CANDIDATES**

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
5. The use of an approved calculator is allowed.
6. Do not use correction fluid/tape.
7. Do not use highlighters on any part of your answers.

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

This question paper consists of 16 printed pages and 1 blank page.

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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 Kassim bought 1.8 kg of mangosteens. How much did he pay?

Mangosteens
85¢ per 150 g

Ans : $_____

2 Jake used a calculator to find the product of a mixed number and 4. He pressed 5 instead of 4 and obtained an answer of 48. What should the correct answer be?

Ans : _____

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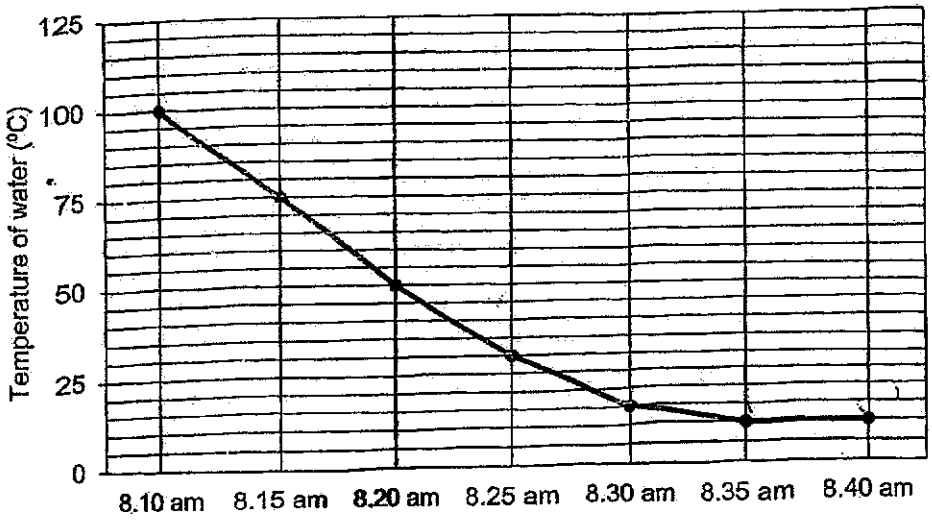
3 The graph shows the temperature of water in a cup from 8.10 am to 8.40 am.




(a) For how many minutes was the temperature of the water 30°C and below?

Ans :(a)_____ min [1]

(b) During which 5-minute intervals did the temperature of the water decrease at the same rate?

Ans :(b)_____ a.m. to _____ a.m.

_____ a.m. to _____ a.m. [1]

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4 Keira can read 80 pages of a novel in 1 hour. Jay can read the same number of pages in $\frac{5}{6}$ of the time. At these rates, how many pages can they read altogether in 1 hour?

Ans : _____

5 Five boys shared the cost of a birthday gift equally. When calculating the amount for each share, one of the boys made an error by dividing the cost of the gift by 4 instead of 5. Each boy paid $2.80 more than his share. What should be the correct amount for each share?

Ans : $_____

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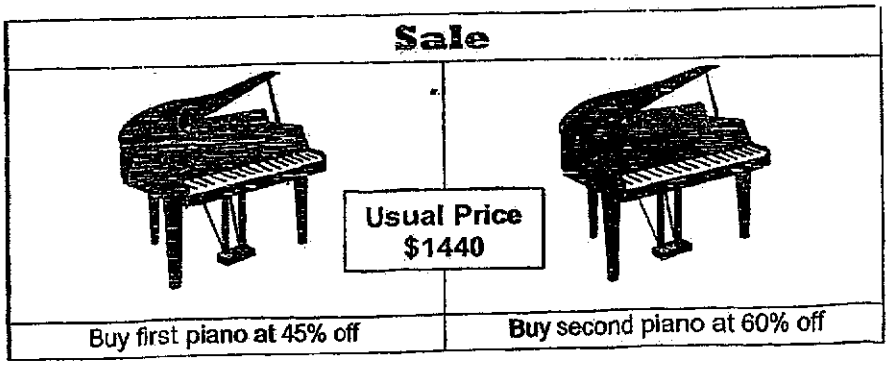
For questions **6** to **17**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (45 marks)

6




Jacob bought 2 pianos of the same model at a sale. How much money did he save?

Ans : _____ [3]

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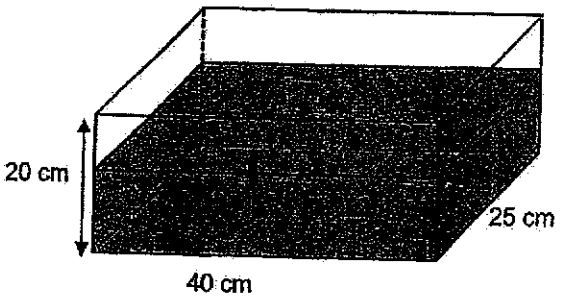
7 A rectangular tank 40 cm long, 25 cm wide and 20 cm high was $\frac{3}{5}$ - filled with water at first.

(a) How much water was in the rectangular tank at first? Express your answer in litres.




Ans : (a)_____ [1]

(b) Water began to leak from the rectangular tank at a rate of 500 ml per minute. At the same time, water flowed into the rectangular tank from a tap at the rate of 1.75 ℓ per minute. How long did it take to fill the rectangular tank completely with water?

Ans : (b) _____ [2]

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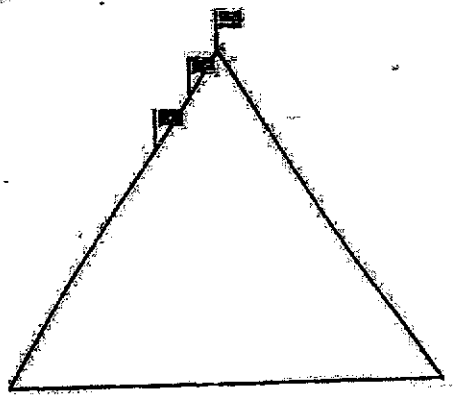
8 Flags are planted at equal distance apart in an equilateral triangle. At each point of the triangle, a flag is planted. On each side of the triangle, there are 17 flags.



How many flags are planted altogether?

Ans : _____ [3]

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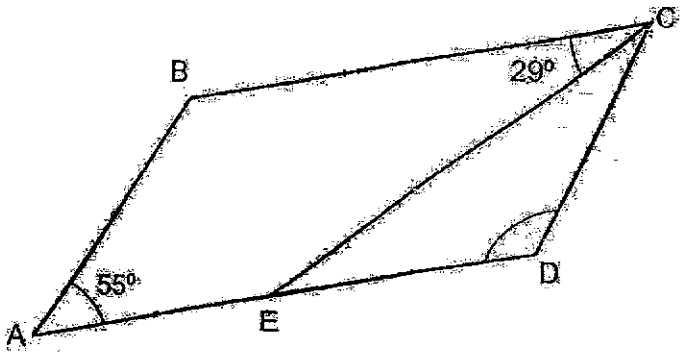
9 In the figure below, ABCE is a trapezium. BC is parallel to AE. AED is a straight line and DE = DC.




(a) Find ∠EDC.

Ans : (a)_____ [2]

(b) Circle the words that describe ABCD correctly in the following statement.

ABCD ( is / is not ) a parallelogram because AB ( is / is not ) parallel to CD.

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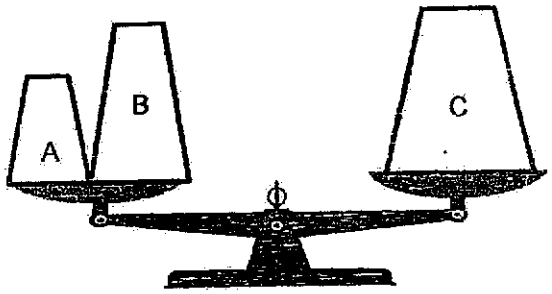
10 The figure below shows three packs of candy A, B and C on a balance scale.




The average mass of the packs is 380g. The mass of pack A is an even 2-digit number. What is the smallest possible difference between the mass of pack A and B?

Ans : _____ [4]

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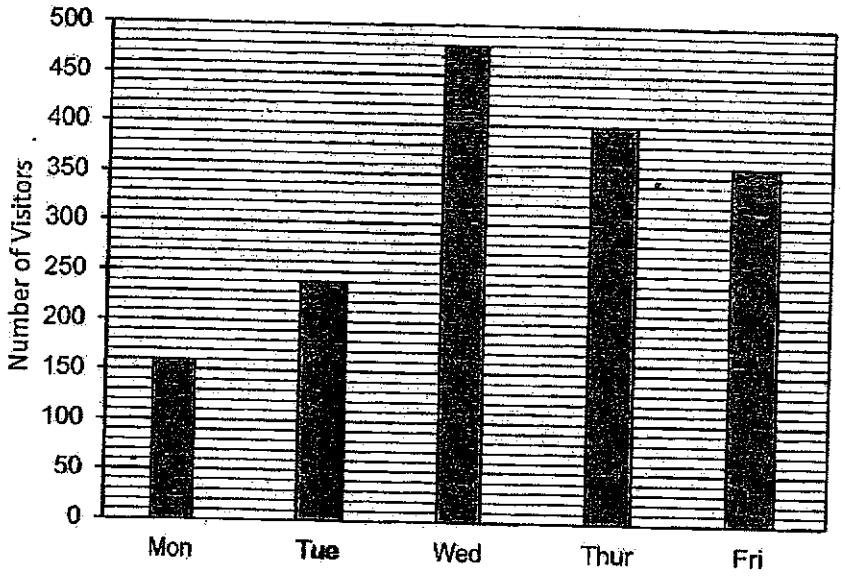
11 The bar graph shows the **number** of visitors to an exhibition from Monday to Friday.




(a) What was the average **number** of visitors from Monday to Friday?

Ans :(a)_____ [2]

(b) The average number **of** visitors on Saturday and Sunday was 124 more **than** the average **number of** visitors from Monday to Friday.

**Write** down one **possible** set of values for the number of visitors on Saturday and Sunday.

Ans :(b) _____, _____ [2]

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12 A shop sold large notebooks at $1.20 each and small notebooks at $0.80 each. Mary bought some large notebooks and Nancy bought some small notebooks from the shop. Mary spent $2.40 more than Nancy, but had 4 fewer notebooks than Nancy. How much did Mary spend on the large notebooks?

Ans : _____ [3]

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13 A shop sold some cupcakes on Saturday and Sunday. The ratio of the number of cupcakes sold on Saturday to the number of cupcakes sold on Sunday was 4 : 7.

(a) 84 cupcakes were sold on Sunday. How many cupcakes were sold on Saturday and Sunday altogether?

Ans : (a)_____ [1]

(b) $\frac{1}{4}$ of the cupcakes sold on Saturday and Sunday were strawberry cupcakes and the rest were chocolate cupcakes. Each strawberry cupcake cost $2 more than each chocolate cupcake. The shop collected $594 from selling all the cupcakes on Saturday and Sunday. What was the price of each chocolate cupcake?

Ans : (b)_____ [3]

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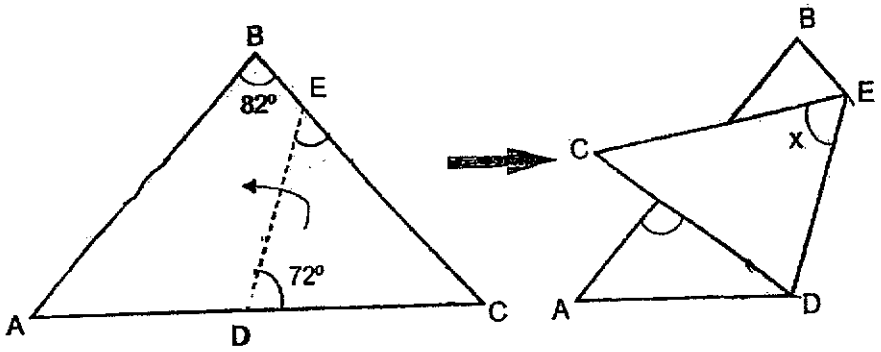
14 Miley has a triangular piece of paper ABC with BA = BC, ∠ABC = 82° and ∠CDE = 72°. ADC and BEC are straight lines. She folded it along the line DE as shown below.




(a) Find ∠x.

Ans : (a)_____ [2]

(b) Find ∠y.

Ans : (b)_____ [2]

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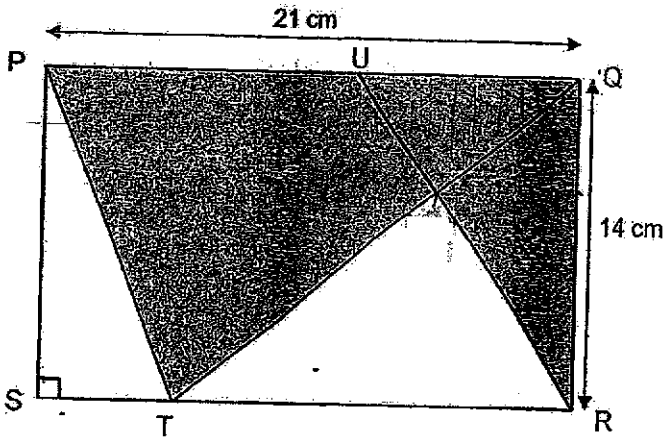
15 In the figure, PQRS is a rectangle. PU is twice the length of UQ. RVU and TVQ are straight lines. The area of the shaded part PQRVT is 165 cm². Find the area of triangle UVQ.




Ans : _____ [3]

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ACSJ

16 Raju, Samad and Terry had the same number of coins. Raju and Samad each had a mix of ten-cent coins and fifty-cent coins. Raju had 7 ten-cent coins while Samad had 15 ten-cent coins. Terry had only fifty-cent coins.

(a) Of the three boys, who had the most money and who had the least?

Ans : (a) Most _____

Least _____ [1]

(b) What was the difference in the total value of Raju and Samad's coins?

Ans : (b)_____ [2]

(c) Samad used all his fifty-cent coins to buy some snacks. He then had $10 less in coins than Terry. How many fifty-cent coins did Terry have?

Ans : (c)_____ [2]

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ACSJ



17 Amy and Beatrice have 174 stickers. $\frac{1}{3}$ of Amy's stickers is 18 more than $\frac{1}{5}$ of Beatrice's stickers. How many stickers must Amy give to Beatrice so the amount of Beatrice's stickers is twice of Amy's?

Ans : _____ [5]

**End of Paper 2**

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ACSJ

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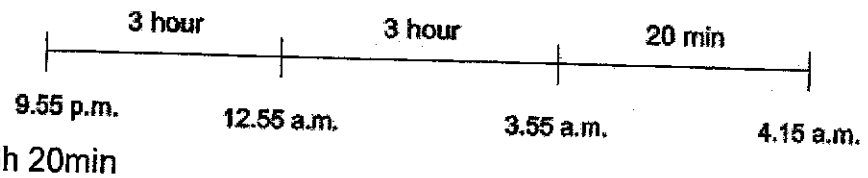
SCHOOL : ANGLO-CHINESE SCHOOL (JUNIOR)
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : SA2

PAPER 1

BOOKLET A

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

BOOKLET B

| | |
|---|---|
| Q16 | 212504 |
| Q17 |  <br>6h 20min |
| Q18 | Girls : Boys : Total students<br>22 : 18 : 40<br>11 : 9 : 20 |
| Q19 | 1.43 |
| Q20 | 90 - 30 - 14 = 46 |
| Q21 (a) | B, C |
| Q21 (b) | 20 |
| Q22 (a) | AB and CD |
| Q22 (b) | DE |
| Q23 | $65.20 x 5 = $326 |

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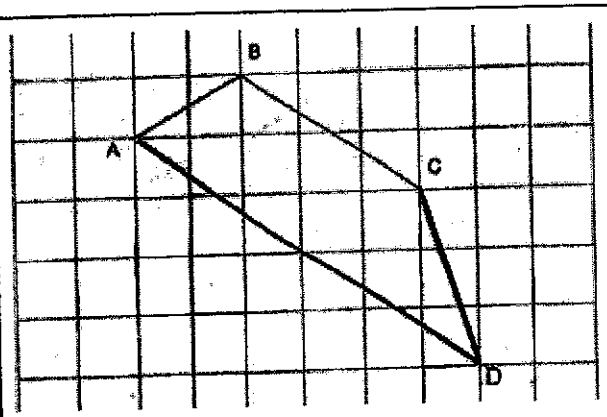
| | |
|---|---|
| | \$326 + **\$280** = \$606 |
| Q24 | $\frac{5}{12}$ |
| Q25 | \$7000 ÷ **100** = \$70<br>\$70 x **2.5** = **\$175**<br>\$7000 + **\$175** = \$7175 |
| Q26 | \$16 - \$7 = **\$9**<br>\$9 ÷ 3 = **3**<br>50g x 3 = **150g**<br>200g + **150 g** = 350g |
| Q27 | $\frac{7}{8} \times \frac{1}{3} = \frac{7}{24}$<br>$\frac{7}{8} = \frac{21}{24}$<br>$\frac{21}{24} - \frac{7}{24} = \frac{14}{24}$<br>$\frac{14}{24} + \frac{1}{4} = \frac{20}{24} = \frac{5}{6}$ |
| Q28 | 32 x 32 = **1024** |
| Q29 (a) |  |
| Q29 (b) | 38° |
| Q30 | \$196 |

PAPER 2

| | |
|---|---|
| Q1 | 1.8kg = **1800g**<br>1800g ÷ **150g** = 12<br>12 x $0.**85** = $10.20 |
| Q2 | 48 ÷ 5 = **9.6**<br>9.6 x 4 = **38.4** |
| Q3 (a) | 15min |
| Q3 (b) | 8.10 a.m. **to** 8.15 a.m.<br>8.15 a.m. **to** 8.20 a.m. |
| Q4 | 60 ÷ 6 = **10**<br>10 x 5 = **50**<br>80 ÷ 50 = **1.6**<br>10 x 1.6 = **16**<br>80 + 80 + **16** = 176 |
| Q5 | 5 - 1 = **4**<br>4 x $2.**80** = $11.20 |
| Q6 | $1440 ÷ **100** = $14.40<br>$14.40 **x 45** = $648<br>$14.40 x **60** = $864<br>$864 + **$648** = $1512 |
| Q7 (a) | 20 x 40 **x 25** = 20000<br>20000 ÷ **5** = 4000<br>4000 x **3** = **12000** = 12L |
| Q7 (b) | 1750 - **500** = 1250<br>20000 - **12000** = 8000<br>8000 ÷ **1250** = 6.4 minutes |
| Q8 | 17 + 16 + **15** = 48 |
| Q9 (a) | ∠BCE = ∠CED = 29°<br>∠EDC = **180°**- 29° - 29° = 122° |
| Q9 (b) | Is not, is **not** |
| Q10 | 380g x **3** = 1140g<br>1140g ÷ **2** = 570g |

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| | |
|---|---|
| | 570g - 98g = 472g<br>472g - 98g = 374g |
| Q11 (a) | 160 + 240 + 480 + **400** + 360 = 1640<br>1640 ÷ 5 = 328 |
| Q11 (b) | 328 + 124 = 452<br>452 x 2 =904<br>500 and 404 |
| Q12 | 14 x $1.20 = $16.80<br>18 x $0.80 = $14.40<br>$16.80 |
| Q13 (a) | 84 ÷7 = 12<br>12 x **4** = 48<br>84 + 48 = 132 |
| Q13 (b) | 132 ÷ 4 = 33<br>33 x 3 = 99<br>33 x 2 = $66<br>$594 - $66 = $528<br>$538 ÷ 4 = $132<br>$132 x 3 = $396<br>$396 ÷ 99 = $4 |
| Q14 (a) | ∠BCA = (180° - **82°**) ÷ 2 = 49°<br>∠x = 180° - 49° - **72°** = 59° |
| Q14 (b) | 180° - 72° - 72° = **36°**<br>180° - 49° - 36° = **95°** |
| Q15 | $\frac{1}{3}$ x 21 = 7<br>$\frac{1}{2}$ x 21 x 14 = 147<br>$\frac{1}{2}$ x 7 x 14 = 49<br>147 + 49 = 196<br>196 - 165 = 31 |
| Q16 (a) | Most: Terry<br>Least: Sammy |
| Q16 (b) | 15 - 7 = 8<br>50 cents - 10 cents = **40** cents |

| | |
|---|---|
| | 40 cents x 8 = 320 cents |
| Q16 (c) | 15 x 10 = 150 cents<br>$10 + $1.50 = $11.50<br>$11.50 ÷ $0.50 = 23 |
| Q17 | 174 ÷ 3 = 58<br>174 + (18 x 5) = 264<br>264 ÷ 8 = 33<br>33 x 3 = 99<br>99 - 58 = 41 |

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