Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2017)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet A

Tuesday **31 October 2017** **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 7 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 hundreds are there in 1 900 000?

   (1) 190
   (2) 1900
   (3) 19 000
   (4) 190 000

2. Round off 208 461 to the nearest hundred.

   (1) 208 000
   (2) 208 400
   (3) 208 500
   (4) 209 000

3. Which of the following is greater than $\frac{3}{5}$?

   (1) $\frac{2}{3}$
   (2) $\frac{4}{7}$
   (3) $\frac{5}{9}$
   (4) $\frac{6}{11}$

4. Express $1\frac{3}{7}$ in decimals.

Round off the answer to 2 decimal places.

(1) 1.37

(2) 1.43

(3) 1.73

(4) 1.86

5. Arrange these distances from the longest to the shortest.

2.105 km	2 km 15 m	$2\frac{1}{5}$ km

	Longest		Shortest
(1)	$2\frac{1}{5}$ km	, 2 km 15 m	, 2.105 km
(2)	2 km 15 m	, 2.105 km	, $2\frac{1}{5}$ km
(3)	2.105 km	, $2\frac{1}{5}$ km	, 2 km 15 m
(4)	$2\frac{1}{5}$ km	, 2.105 km	, 2 km 15 m

6. $0.045 \times 100 = 4500 \div \boxed{}$

What is the missing number in the box?

(1) 10

(2) 100

(3) 1000

(4) 10 000

7. The table shows the marks scored by Melissa in 4 tests. What is her average score for the 4 tests?

Subject	English	Mathematics	Science	Mother Tongue
Mark	68	84	79	65

(1) 74

(2) 75

(3) 76

(4) 77

8. The sign below shows the opening hours of a clinic. How long is the clinic open for each day?

<u>Opening Hours</u>

8.45 a.m. to 12.30 p.m.
2.30 p.m. to 7 p.m.

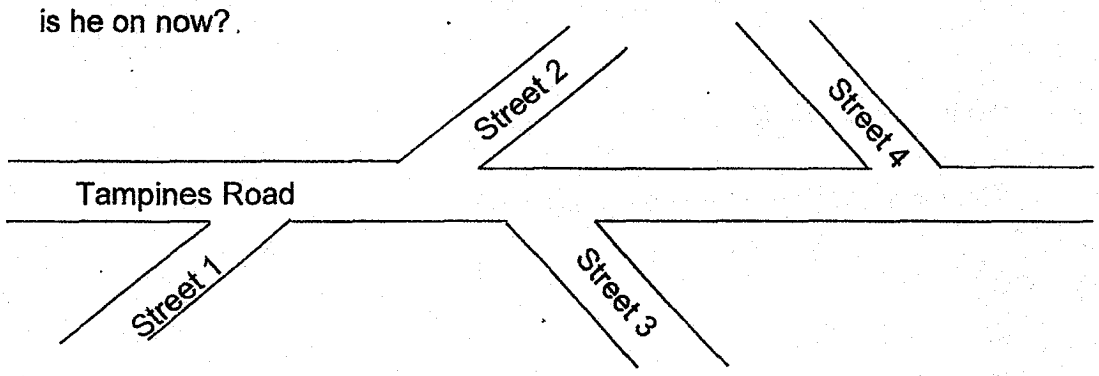
(1) 3 h 45 min

(2) 4 h 30 min

(3) 8 h 15 min

(4) 9 h 30 min

9. Nam Wee was walking along Tampines Road towards the East. After he turned onto a street, he is now facing the South-West direction. Which street is he on now?



(1) Street 1

(2) Street 2

(3) Street 3

(4) Street 4

10. Express 0.08 in percentage.

(1) $\frac{8}{10}\%$

(2) $\frac{4}{50}\%$

(3) 8%

(4) 0.08%

11. Serena used $\frac{4}{5}$ kg of flour to bake a tin of cookies. She baked 8 tins of cookies. How much flour did she use altogether?

(1) $\frac{32}{40}$ kg

(2) $6\frac{2}{5}$ kg

(3) $8\frac{4}{5}$ kg

(4) $9\frac{1}{5}$ kg

12. The table below shows the rates for renting a bicycle from a shop.

First 2 hours	\$8
After the second hour	\$3 per $\frac{1}{2}$ hour or part thereof

Jason rented a bicycle from 10 45 to 14 05. How much did Jason have to pay?

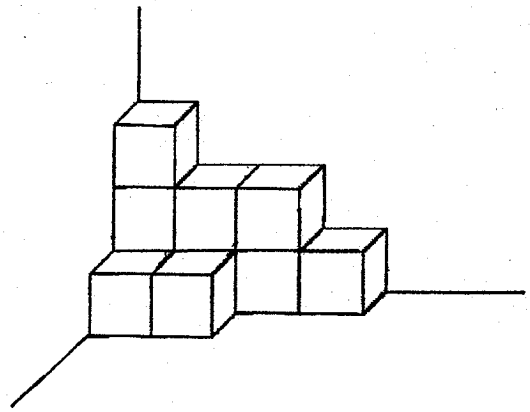
(1) \$11

(2) \$14

(3) \$17

(4) \$20

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



(1) 9 cm^3

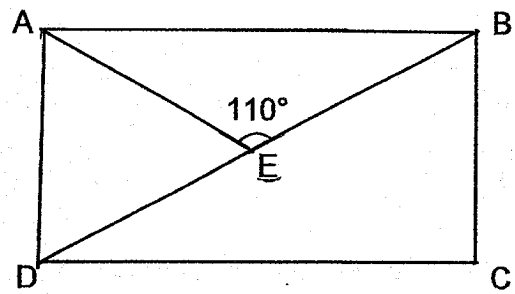
(2) 10 cm^3

(3) 11 cm^3

(4) 12 cm^3

14. ABCD is a rectangle. $\angle AEB = 110°$ and AE = BE.

Find $\angle ADE$.



(1) 35°

(2) 45°

(3) 55°

(4) 65°

15. The total capacity of 3 identical bottles is the same as the total capacity of 2 identical jugs. 6.84 ℓ of water are needed to fill up 3 bottles and 4 jugs completely. What is the capacity of a bottle?

(1) 684 ml

(2) 760 ml

(3) 855 ml

(4) 1 ℓ 368 ml

End of Booklet A

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2017)

PRIMARY 5

MATHEMATICS

PAPER 1

Booklet B

Tuesday **31 October 2017** **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.

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

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 $200 - (2 + 8) \times 12 \div 4$.

Ans: _____

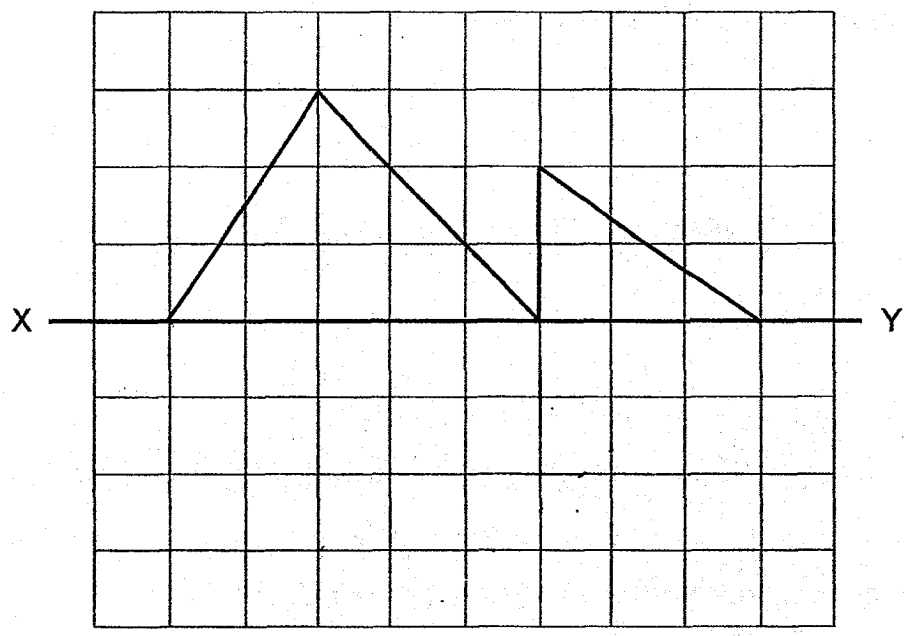
17. 8 pizzas were shared among 7 children. What fraction of a pizza does each child get? Express your answer in mixed number.

Ans: _____

18. Fauzi can type 70 words per minute. At this rate, how many words can he type in an hour?

Ans: _____

19. Draw four straight lines to form a symmetrical figure below with XY as the line of symmetry.



20. There is a total of 64 red and blue buttons in a box. 16 of them are red and the rest are blue. What is ratio of the number of blue buttons to that of red buttons in the box?

Ans: _____

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)

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21. Andrew bought 14 bags of marbles. Each bag contained 28 marbles. He distributed all the marbles equally among 8 classmates. How many marbles did each classmate get?

Ans: _____

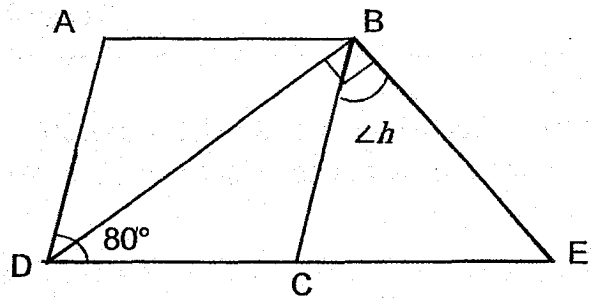
22. a) Find the value of 15.6 – 0.89.

b) Express 7 024 m in kilometres.

Ans: a)_____

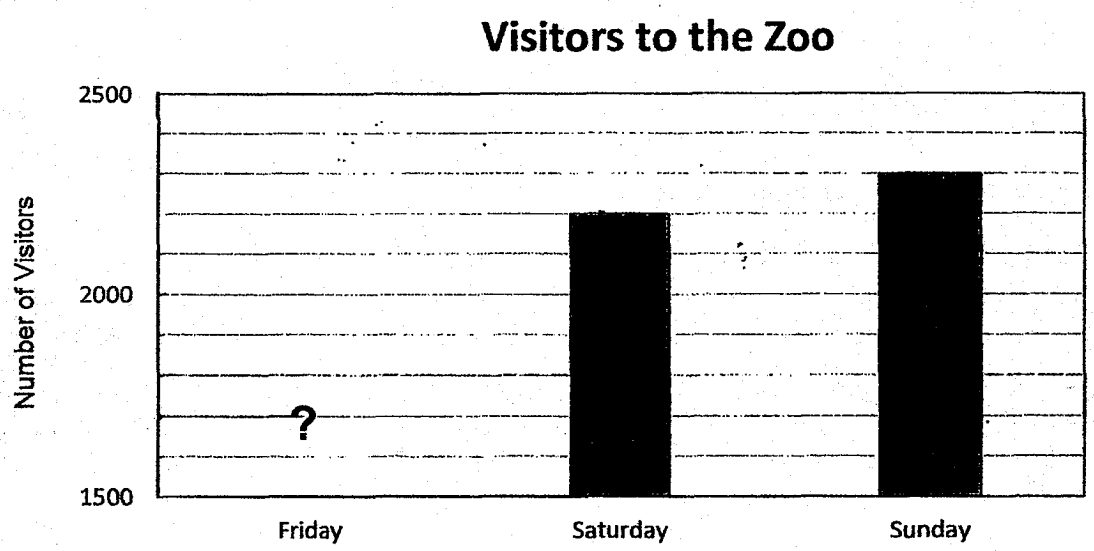
b)_____ km

23. The figure below is made up of a rhombus ABCD and right-angled triangle BDE. $\angle ADC = 80°$. Find $\angle h$.



Ans: _____°

24. The graph below shows the number of visitors at a local zoo from Friday to Sunday.



The total number of visitors visiting the zoo from Friday to Sunday is 6300. How many visitors visited the zoo on Friday?

Ans: _____

25. A pair of sunglasses cost $140. Nurul bought the pair of sunglasses at a 20% discount. How much did she pay for the pair of sunglasses?

Ans: $_____

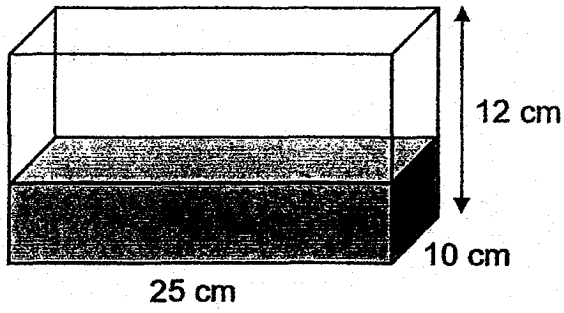
26. Rena had 3 packets of sugar. Each packet contained $\frac{1}{4}$ kg of sugar. She used $\frac{2}{5}$ kg of sugar to bake some muffins. How much sugar had she left?

Ans: _____ kg

27. Marcus had twice as many beads as Kate at first. After Kate lost 12 of her beads, Marcus had 3 times as many beads as Kate. How many beads did they have altogether at first?

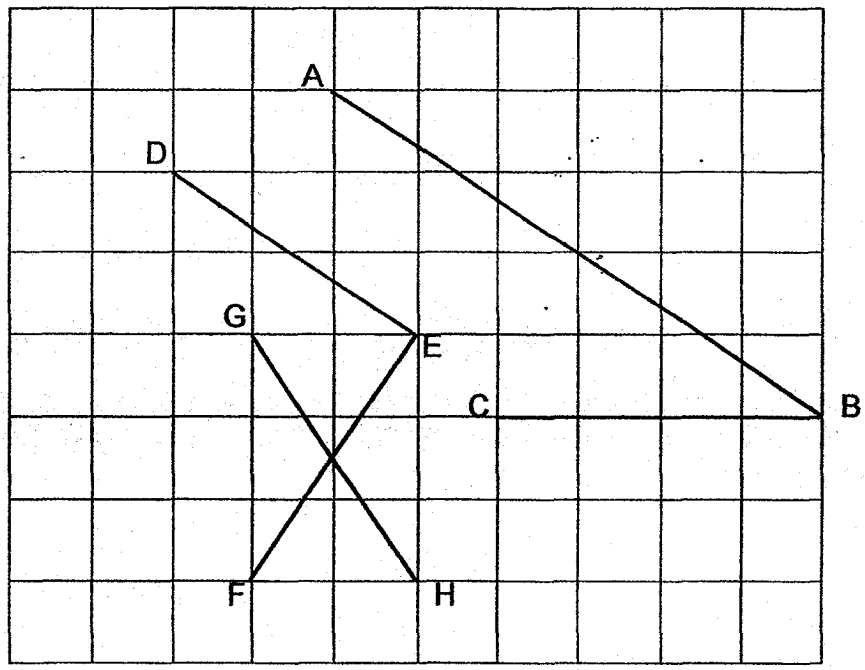
Ans: _____

28. The tank below is $\frac{1}{3}$ filled with water. What is the volume of water needed to fill the tank completely?



Ans: _____ cm^3

29.



Refer to the figure above.

(a) Name two lines that are perpendicular to each other.

(b) Name two lines that are parallel to each other.

Ans: (a) _____ ⊥ _____

(b) _____ // _____

30. 2 workers can paint a room in one day. Assuming the workers paint at the same rate, how long would it take for 6 workers to paint 2 rooms?

Ans: _____ day(s)

End of Booklet B

Sub-Total :

Anglo-Chinese School (Junior)

SEMESTRAL ASSESSMENT 2 (2017)

PRIMARY 5

MATHEMATICS

PAPER 2

Tuesday **31 October 2017** **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	
	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)

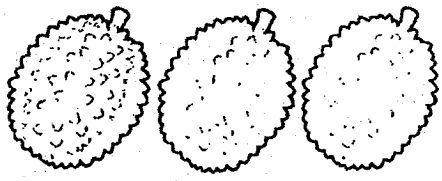
1. Ravi paid $192 for a watch and 5 shirts. The price of a watch is 3 times the price of a shirt. How much did Ravi pay for the watch?

Ans: $_____

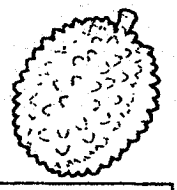
2. The mass of a box containing 24 identical cans of soda is 8.7 kg. When 10 cans of soda are removed, the mass of the box with the remaining cans of soda is 5.2kg. What is the mass of a can of soda? Give your answer in grams.

Ans: _____ g

3. Durians are sold in sets of 3 for \$50 or \$20 each. Eugene had to buy 25 durians for a gathering. What is the least amount of money that he has to pay?



3 for \$50



1 for \$20

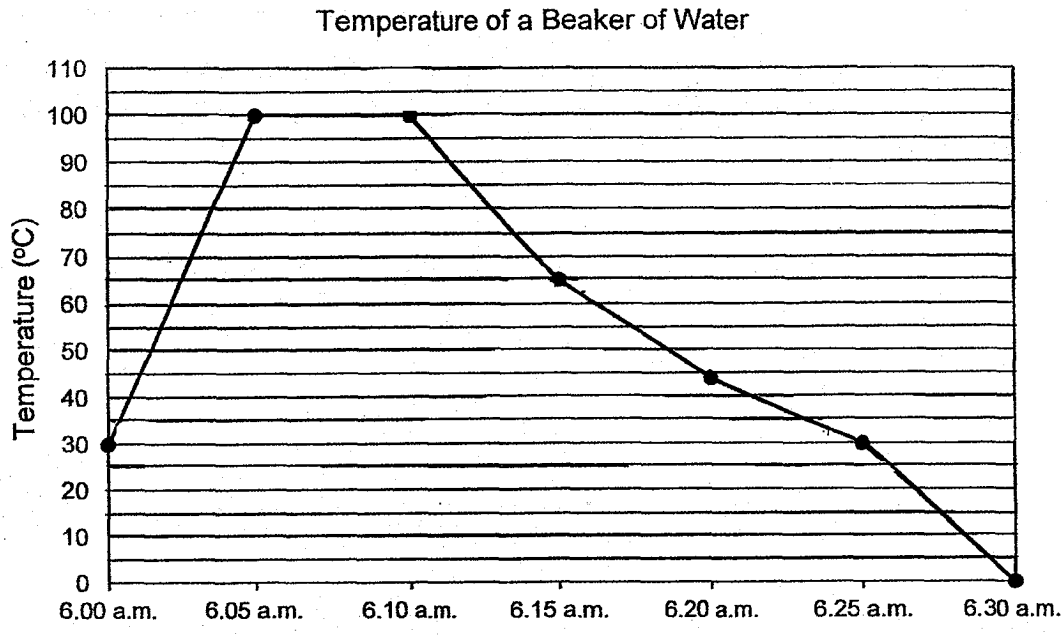
Ans: \$_____

4. Song Jun had a basket of apples. He ate the same number of apples every day. After 2 days, he had $\frac{2}{3}$ of the apples left. After another 3 days, he had 2 apples left. How many apples did he have at first?

Ans: _____

Sub Total :

5. The line graph below shows the change in temperature of a beaker of water over 30 minutes.



(a) How long did the temperature remain unchanged at 100°C?

(b) What was the difference in temperature between 6.15 a.m. and 6.25 a.m.?

Ans: (a)_____min

(b)_____ °C

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)

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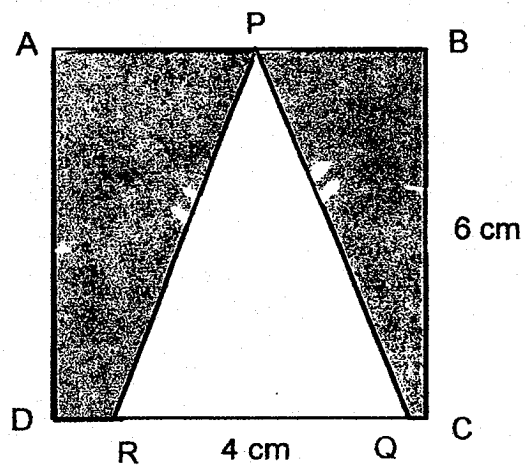
6. Aloysius had twice as much money as Rebecca. Aloysius gave some money to Rebecca and they each had $1050 in the end. How much money did Aloysius have at first?

Ans: _____ [3]

7. In the figure below, ABCD is a square of sides 6 cm. PQR is an isosceles triangle where PQ = PR and QR = 4 cm. Find the shaded area.



Ans: _____ [3]

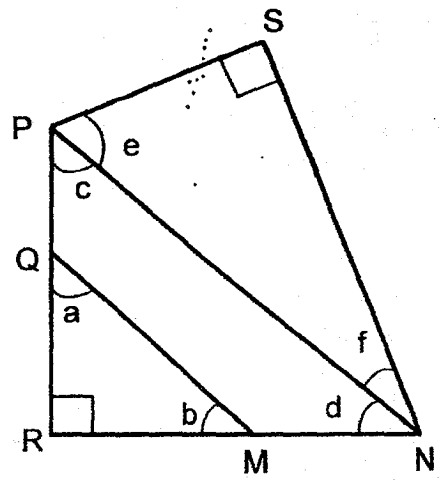
8. The table below shows the amount of time taken by 3 boys in a 300 m race. Some of the data recorded were missing.

Name	Time Taken (Seconds)
Joash	42
Ken	
Lincoln	

The average time taken by the 3 boys was 46 seconds. Ken finished the race 6 seconds faster than Lincoln. What was the time taken by Lincoln?

Ans: _____ [3]

9. The figure below is made up of 3 right-angled triangles, QRM, PRN and PSN. Find the sum of $\angle a + \angle b + \angle c + \angle d + \angle e + \angle f$.



Ans: _____ [3]

10. Henry's weekly pocket money is $32. Every week, he spends 75% of his pocket money and saves the rest. How much money will he save in 12 weeks?

Ans: _____ [3]

11. The mass of 2 chickens and 3 ducks is 6.54 kg. The mass of 4 chickens and 5 ducks is 11.86 kg. Each chicken has the same mass and each duck has the same mass.

(a) What is the mass of one duck?
(b) What is the mass of one chicken?

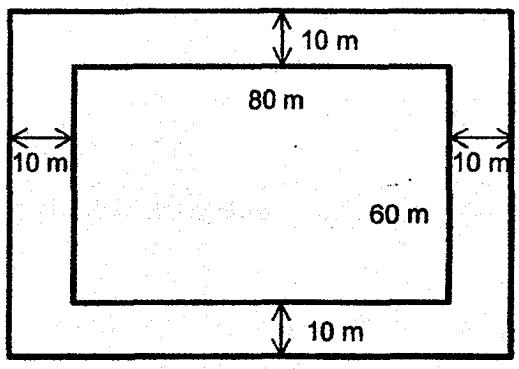
Ans: (a)_____ [2]

(b)_____ [2]

12. The diagram below shows the sports facilities in School A. It has a field of 80 m length and 60 m width. There is a 10 m-wide track around the perimeter of the field.

(a) What is the area of the track?

(b) The school decides to paint the track in a different colour. For every 1 m^2 area, 0.5 litre of paint is needed. What is the volume of paint needed to paint the track?



Ans: (a) _____ [3]

(b) _____ [1]

13. The average test score of a class was 71 marks. After four students who scored an average of 68 left the class, the average score of the remaining students became 73 marks. How many students were there in the class at first?

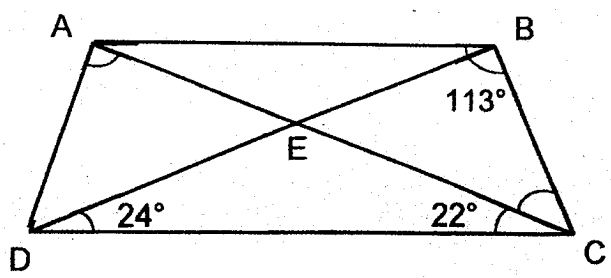
Ans: _____[4]

Sub Total :

14. In the diagram below, ABCD is a trapezium. $\angle ACD = 22°$, $\angle BDC = 24°$ and $\angle ABC = 113°$. AE = AD.

(a) Find $\angle BCA$.

(b) Find $\angle DAE$.



Ans : (a) _____ [1]

(b) _____ [3]

15. At the start of the year, the ratio of the adults to children in a school was 1 : 6 . There were 1210 more children than adults.

(a) How many children were there?

(b) 8 boys joined the school in the middle of the year and there were 3 times as many girls than boys. How many girls were there?

Ans: (a)_____[2]

(b)_____[2]

Sub-Total :

16. Ryan, Sean and Theodore jogged a total distance of 24.15 km during a fundraising marathon. Ryan jogged 420 m less than Sean. Theodore jogged twice the total distance of what Ryan and Sean jogged.

(a) What is the distance that Ryan jogged? Express your answer in metres.

(b) For every 100 m that they jogged, they would raise $1.50. How much money did Theodore manage to raise during the marathon?

Ans: (a)_____ [2]

(b)_____ [3]

Sub-Total :

17. Kenneth had some money. He spent $\frac{1}{7}$ of his money on food and \$180 on transport. He spent $\frac{1}{5}$ of the remaining money on a new table. He also spent \$1000 on a new television screen. He saved the remaining \$1400 in the bank. How much money did Kenneth have at first?

Ans : _____ [5]

End of Paper 2

ACS Junior

P5 SA2 Maths 2017

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

EXAM PAPER 2017 (P5)

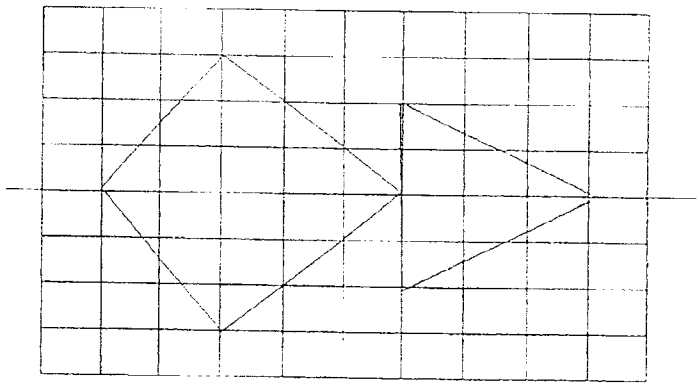
SCHOOL : ACS

SUBJECT : MATHEMATICS

TERM : SA2

ORDER CALL :

16)170 17)$1\frac{1}{7}$ 18)4200 19)



20)3:1

21)14 x 28 = 392

392 ÷ 8 = 49

22)a)15.6 – 0.89 = 14.71

b)7024m = 7kn 24m

= 7.024km

23)360° – 160° = 200°

90° – 40° = 50°

24)6300 – 2300 – 2200 = 1800

25)140/1 x 80/100 = 1120/1 = $112

26)7/20kg

27)108

28)2000cm3

29)a)DE h EF

b)DE // AB

30)2/3 day

Paper 2

1)1w→3s

8s→192

1s→192 ÷ 8 = 24

1w→24 x 3 = $72

2)8.7 – 5.2 = 3.5

3.5 ÷ 10 = 0.35

0.35kg = 350g

3)25 ÷ 3 = 8

8 x 50 = 400

400 + 20 = $42

4)4 – 3 = 1

1u = 2

5u = 10

10 + 2 = 12

5)a)5 mins

b)65 – 30 = 35℃

6)3u = 1050

1u = 350

4u = $1400

7) ½ x 4 x 6 = 12

6 x 6 = 36

36 – 12 = 24cm2

8)51 seconds

9)90 + 90 + 90 = 270°

10)100 – 75 = 25

32/1 x 25/100 = 8

8 x 12 = $96

11)a)2c + 3d = 6.54

4c + 5d = 11.86

4c + 6d = 13.08

13.08 – 11.86 = 1.22kg

b)1.22 x 3 = 3.66

6.54 – 3.66 = 2.88

2.88 ÷ 2 = 1.44kg

12)a)100 x 80 = 8000

80 x 60 = 4800

8000 – 4800 = 3200 m2

b)3200 x 0.5 = 1600L

13)73 – 71 = 2

73 – 68 = 5

5 x 4 = 20

20 ÷ 2 = 10

14)a)180° – 22° – 113° = 45°

b)113° – 22° – 24° = 88°

15)a)5u = 1210

1u = 242

6u = 1452

b)1452 + 8 = 1460

1460 ÷ 4 = 365

365 x 3 = 1095

16)a)420 x 3 = 1260

24150 – 1260 = 22890m

22890 ÷ 6 = 3815m

b)3815 x 4 + 840 m = 16100m

16100 ÷ 100 = 161

161 x 1.5 = $241.50

17)1400 + 1000 = 2400

2400 ÷ 4 = 600

600 x 5 = 3000

$3000 \div 180 = 3180$

$3180 \div 6 = 530$

$530 \times 7 = \$3710$