Rosyth School
End-of-Year Examination 2019
Mathematics
Paper 1
Primary 5

Name: _____ Register No. _____

Class: Pr 5 -_____

Date: 31 October 2019 Parent's Signature: _____

Total Time for Booklets A and B : 1 hour

Booklet A

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. Shade your answers in the Optical Answer Sheet (OAS) provided.
4. You are **not** allowed to use a calculator.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet A)	20	

* This booklet consists of 7 pages (including this 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 oval (1, 2, 3 or 4) on the Optical Answer Sheet.

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

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1 The value of the digit 5 in 658 902 is _____.

(1) 500
(2) 5 000
(3) 50 000
(4) 500 000

2 $\frac{9}{24} = \frac{12}{\boxed{?}}$

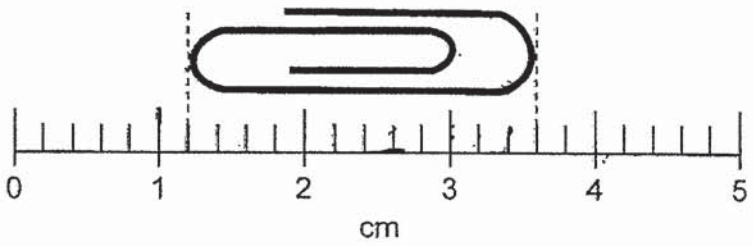
(1) 21
(2) 27
(3) 32
(4) 40

3 In 8.352, what does the digit 3 stand for?

(1) 3 tens
(2) 3 tenths
(3) 3 hundredths
(4) 3 thousandths

(Go on to the next page)

4 What is the length of the paper clip in the figure below?



(1) 2.2 cm

(2) 2.4 cm

(3) 3.3 cm

(4) 3.6 cm

5 3 days shared 60 cards in a certain ratio.
Which one of the following is not possible ratio?

(1) 1 : 4 : 2

(2) 2 : 5 : 8

(3) 3 : 4 : 5

(4) 16 : 1 : 3

6 Zuraidah had $80. She spent $28 and saved the rest. What percentage of her money was spent?

(1) 28%

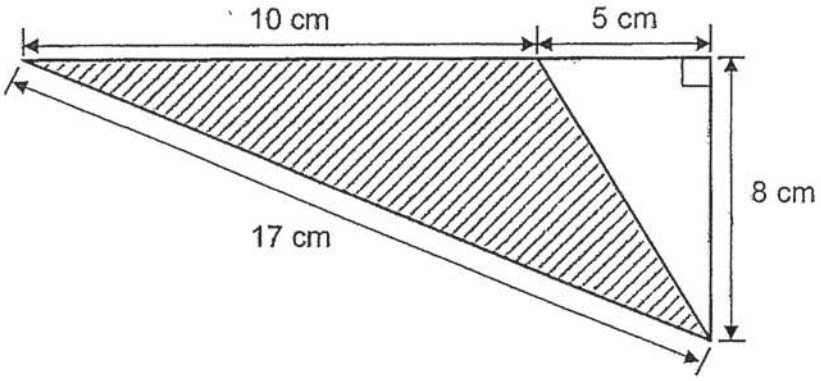
(2) 35%

(3) 52%

(4) 65%

(Go on to the next page)

7 Find the area of the shaded triangle.



(1) 40 cm^2

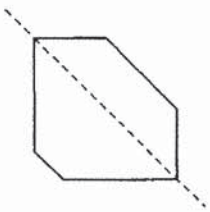
(2) 60 cm^2

(3) 68 cm^2

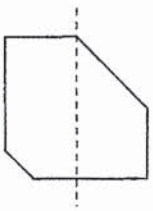
(4) 85 cm^2

8 In which of the figures below is the dotted line a line of symmetry?

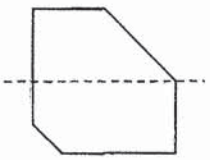
(1)



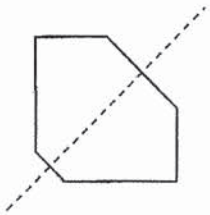
(2)



(3)

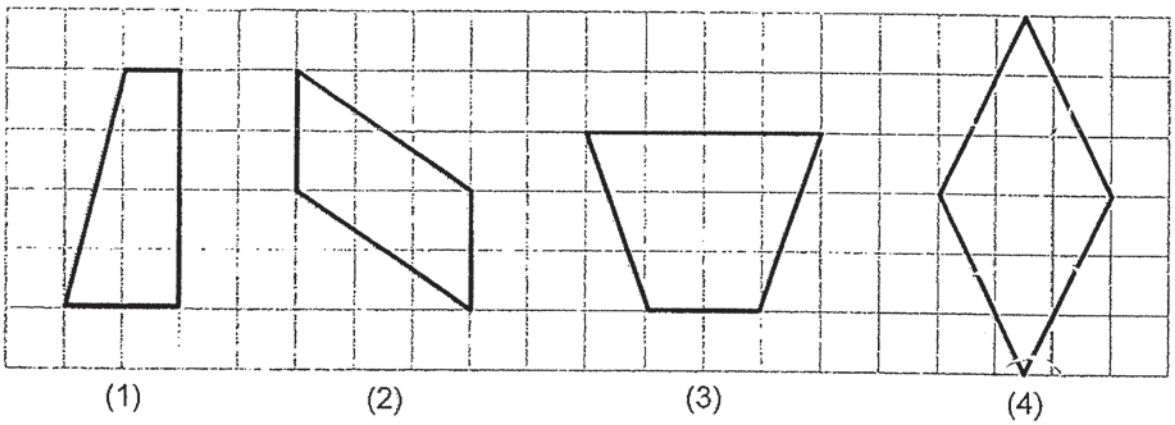


(4)



(Go on to the next page)

9 In the square grid below, which shape is a rhombus?



10 The table below shows the amount of money Kai spent.

Day	Monday	Tuesday	Wednesday	Thursday
Amount of money spent	$42	$36	$30	$32

What was the average amount of money spent by Kai?

(1) $35
(2) $36
(3) $37
(4) $38

11 The charges for printing invitation cards are as follows:

Number of cards	**Charge**
First 100 cards	$18
Every additional card	$0.20

How much does it cost to print 300 cards?

(1) $28.00
(2) $58.00
(3) $60.00
(4) $78.00

(Go on to the next page)

12 The table below shows the results of 50 pupils who took part in the first round of a contest.

Score	Number of pupils
4	3
3	10
2	15
1	8
0	14

Pupils who scored at least 2 points qualified for the next round of the contest. What percentage of the pupils qualify for the next round of the contest?

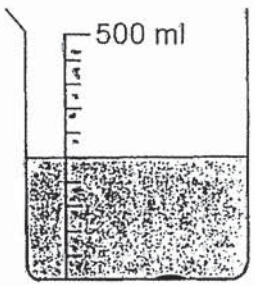
(1) 13%

(2) 26%

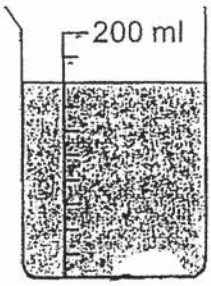
(3) 28%

(4) 56%

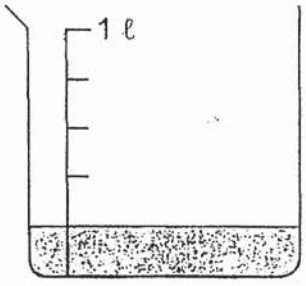
13 Three containers with some water are shown below. Arrange the containers in order starting with the container with the least volume of water.



A



B



C

(1) C, A and B

(2) B, A and C

(3) B, C and A

(4) A, C and B

(Go on to the next page)

14 The airmail rates to two countries are shown below.

Mass Step	Indonesia	USA
First 20 g	\$0.70	\$1.30
Every additional 10 g	\$0.25	\$0.35

Vishaal sent a letter weighing 10 g to Indonesia and a letter weighing 37 g to USA by airmail. How much did he pay altogether?

(1) \$1.90

(2) \$2.25

(3) \$2.60

(4) \$2.70

15 When Dani filled $\frac{1}{3}$ of a pail with water and weighed it, its mass was 1100 g. When she filled the pail completely with water, its mass was 2700 g. What was the mass of the pail when it was $\frac{1}{2}$ filled with water?

(1) 1350 g

(2) 1500 g

(3) 1550 g

(4) 1900 g

Continue to Booklet B

Rosyth School
End-of-Year Examination 2019
Mathematics
Paper 1
Primary 5

Name: _____ Register No. _____

Class: Pr 5 -_____ Group No.: _____

Date: 31 October 2019 Parent's Signature: _____

Total Time for Booklets A and B : 1 hour

Booklet B

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. You are **not** allowed to use a calculator.
4. Write your answers in the booklet.
5. Answer all questions.

Section	Maximum Mark	Marks Obtained
Paper 1 (Booklet B)	25	

* This booklet consists of **9** pages (including this 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.

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

(5 marks)

16 Find the value of $5\frac{1}{2} - 3\frac{1}{4}$

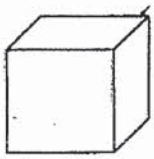
Give your answer as a mixed number in the simplest form.

Ans : _____

17 Write down one decimal between 5 and 5.1.

Ans : _____

18 What is the volume of the cube shown below?



5 cm

Ans : _____ cm^3

(Go on to the next page)

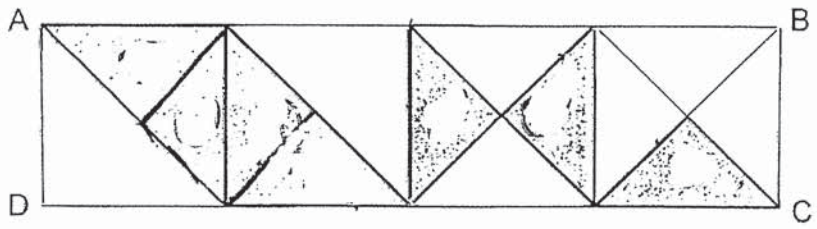
19 $5 : 4 = 40 :$?

What is the missing number?

Do not write in this space

Ans :

20 A rectangle ABCD is made up of 4 large identical triangles and 8 small identical triangles. Find the ratio of the area of the shaded parts to the area of the unshaded parts.



Ans : _____

(Go on to the next page)

Questions **21** to **30** carry 2 marks each. Show your workings 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.

Do not write in this space

All diagrams in this paper are not drawn to scale unless stated otherwise.

(20 marks)

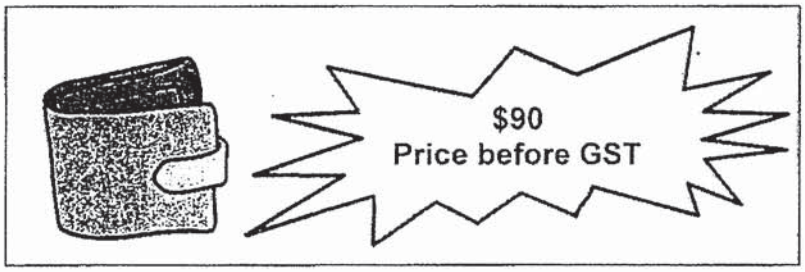
21 Find the value of $100 + 50 \div 5 \times 6 - 14$

Ans : _____

22 Find the value of $3 \div 7$. Give your answer correct to 2 decimal places.

Ans : _____

23 Greg bought the wallet shown below. This price does not include the 7% GST. What is the price of the wallet inclusive of GST?

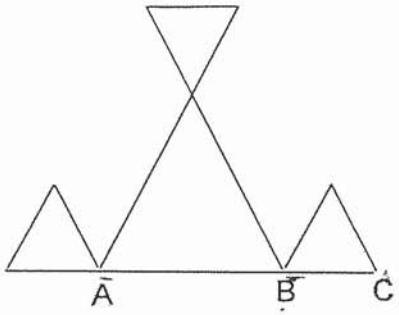


Ans : $_____

(Go on to the next page)

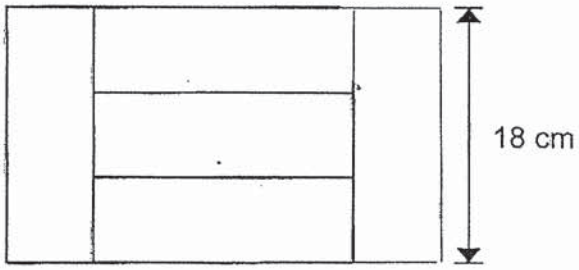
24 Siti bends a piece of wire to form the shape as shown in the figure below. It is made up of 3 small identical equilateral triangles and a big equilateral triangle. The ratio of the length of AB to the length of BC is 2 : 1 The length AC is 30 cm. Find the length of the wire that Siti uses.

Do not write in this space



Ans : _____ cm

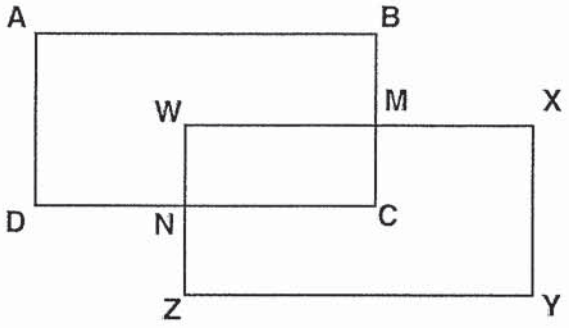
25 The figure below is made up of 5 identical rectangles.
The length of each rectangle is 18 cm. Find the total area of the figure.



Ans ; _____ cm^2

(Go on to the next page)

26 In the figure below, ABCD and WXYZ are identical rectangles.
The perimeter of each rectangle is 37 cm.
The perimeter of the shaded rectangle WMCN is 22 cm.
Find the perimeter of the figure ABMXYZND.



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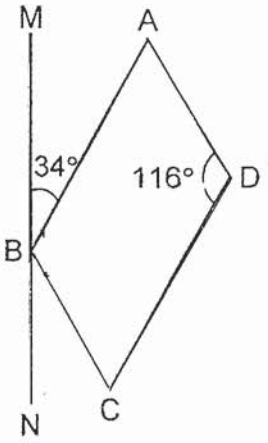
Ans : _____ cm

27 In the figure below, ABCD is a parallelogram. MBN is a straight line.
∠MBA is 34° and ∠ADC is 116°. Find ∠NBC.

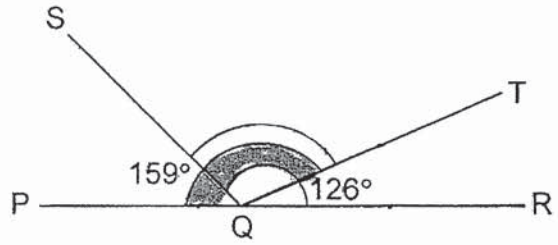


Ans : _____ °

(Go on to the next page)

28 In the figure, PQR is a straight line, ∠PQT = 159° and ∠RQS = 126°. What is ∠SQT?

Do not write in this space

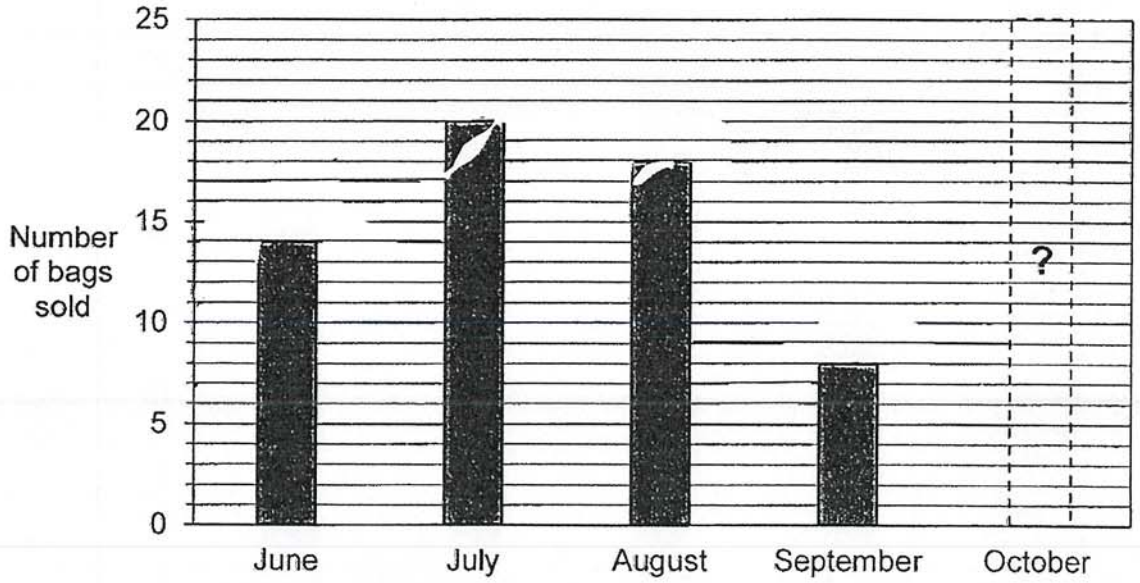


Ans : _____ °

(Go on to the next page)

29 The bar graph shows the number of bags sold by a shop from June to October.

Do not write in this space



The shop sold an average of 13 bags from June to October.
Find the number of bags sold in October.

Ans _____

(Go on to the next page)

30 Keith received $30 for his pocket money each month.
The line graph shows the amount of pocket money Keith saved each month from January to May.

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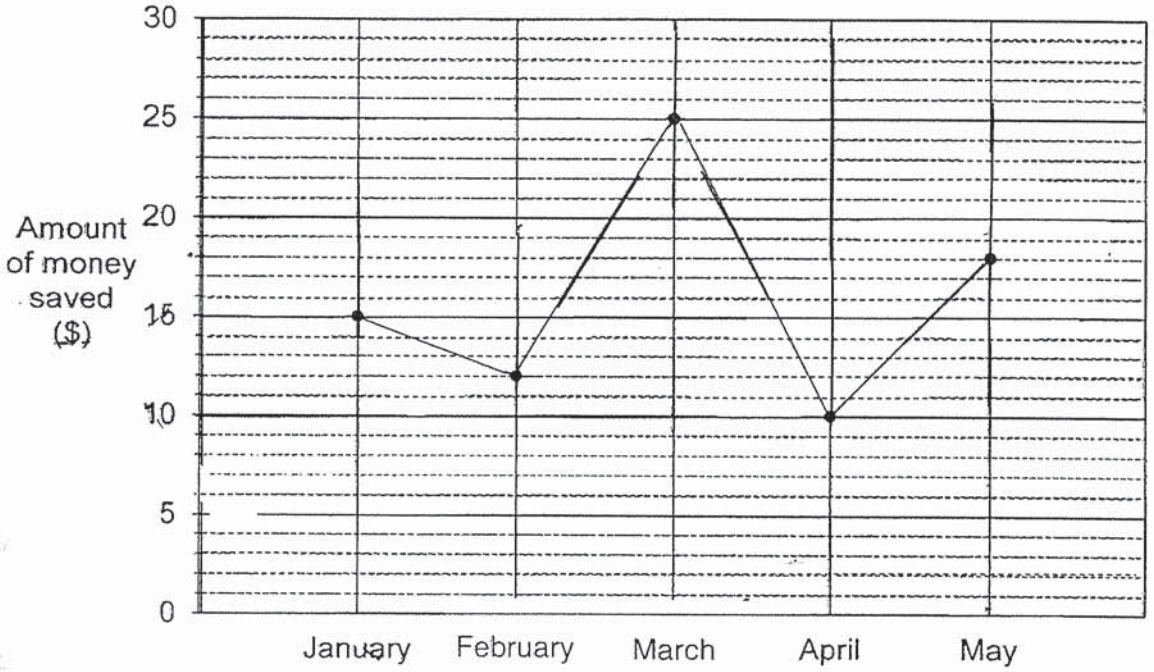


(a) How much more money did Keith save in May than in February?
(b) In which month did Keith spend the most amount of money?

Ans: (a) $ _____

(b) _____

End of paper
Have you checked your work?

Rosyth School
End-of-Year Examination 2019
Mathematics
Paper 2
Primary 5

Name: _____ Register No. _____

Class: Pr 5 - _____ Group No: _____

Date: 31 October 2019 Parent's Signature: _____

Time: 1 h 30 min

Instructions to Pupils:

1. Do not open this booklet until you are told to do so.
2. Follow all instructions carefully.
3. **Show your workings clearly** as marks are awarded for correct working.
4. Write your answers in this booklet.
5. You are allowed to use a calculator.
6. Answer all questions.

Questions	Maximum Mark	Marks Obtained
Q 1 to 5	10	
Q 6 to 17	45	

Section	Maximum Mark	Marks Obtained
Paper 1	45	
Paper 2	55	
Total	100	

* This booklet consists of 16 pages (including this cover page).

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)

All diagrams in this paper are not drawn to scale unless stated otherwise.

Do not write in this space

1. A taxi service charges the following rates:

Distance travelled	Charge
First kilometer or less	\$3.50
Every 500 m thereafter or less	\$0.30

Mrs Lin paid a taxi fare of \$6.50. What was the greatest distance that Mrs Lin could have travelled in the taxi?

Ans : _____ km

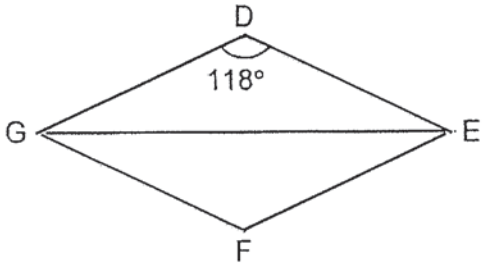
2. Rozanne bought 1500 g of cherries. How much did she pay for the cherries?

Cherries
\$1.80 per 100 g

Ans : \$ _____

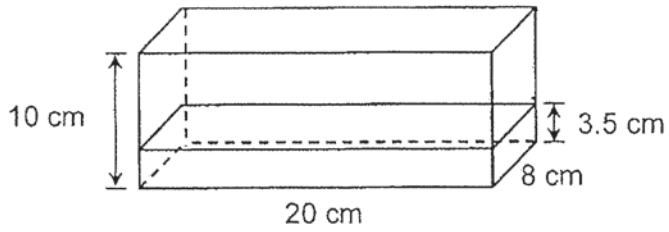
3. In the figure, DEFG is a rhombus and $\angle GDE = 118^\circ$. Find $\angle EGD$.

Do not write in this space



Ans : _____ °

4. A rectangular container measuring 20 cm by 8 cm by 10 cm is filled with some water. The height of the water in the container is 3.5 cm. Find the volume of water needed to fill the container to the brim.



Ans : _____ cm^3

5. The average mass of Jim, Lilian and Minah is 48 kg. Jim is 7 kg heavier than Lilian. Jim is also 5 kg heavier than Minah.

Do not write in this space

Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick (√) in the correct column.

	Statement	True	False	Not possible to tell
a)	Minah weighs 47 kg.			
b)	Asha joins the group and the average mass of the 4 children became 50 kg. Asha has the heaviest mass			

For Questions **6** to **17,** show your working clearly in the space provided for each question 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. For questions which require units, give your answers in the units stated.

(45 marks)

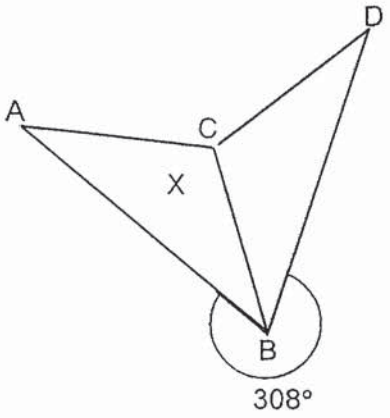
All diagrams in this paper are not drawn to scale unless stated otherwise.

Do not write in this space

6. The ratio of Tammy's age to her sister's age is 1 : 3. In 10 years' time, their total age will be 76 years. What is Tammy's age now?

Ans : _____ [3]

7. The figure below show two identical isosceles triangles CBA and ADB. AC = CB = CD and $\angle ABD = 308°$ Find $\angle x$.



Do not write in this space

Ans : _____ [3]

8. The table below shows the time taken by Hari to run 100 metres during his training sessions.

Do not write in this space

Attempt	1st	2nd	3rd	4th	5th	6th
Time Taken (in seconds)	17	18	19	15	21	?

After 5 attempts, Hari wanted to improve his average time taken by 0.5 seconds by running faster in the 6th attempt. How fast should he run in the 6th attempt in order for him to make the improvement?

Ans : _____ [3]

9. Kylie baked 80 walnut muffins and 70 chocolate muffins. She sold 43 walnut muffins and 57 chocolate muffins. What percentage of her remaining muffins are chocolate muffins?

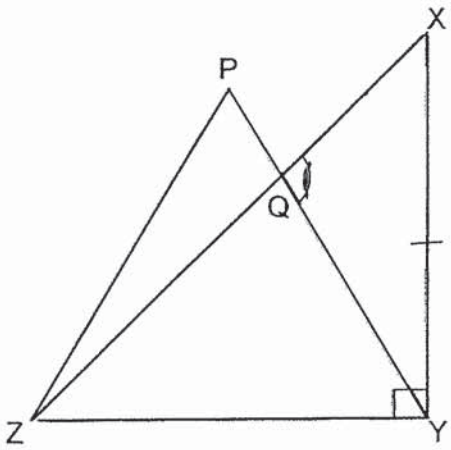
Do not write in this space

Ans : _____ [3]

10. In the figure below, XYZ is an isosceles triangle. XY = YZ and ∠XYZ = 90° PYZ is an equilateral triangle.

(a) Find ∠XZY.

(b) Find ∠XQY.



Do not write in this space

Ans : a) _____ [1]

b) _____ [3]

11. Amanda and Germaine went travelling with a total sum of $663. Amanda spent twice as much as Germaine. The amount of money that Germaine had left was $28 more than what she had spent. Amanda had half as much money left as Germaine.

Do not write in this space

(a) How much did Amanda spend?

(b) How much money did Germaine have at first?

Ans : a) _____ [3]

b) _____ [1]

12. Joey spent $\frac{2}{9}$ of her money on 3 photograph frames. She bought another 6 identical photograph frames and 10 coloured markers with the rest of her money.

Do not write in this space

a) What fraction of her money did she spend on the 10 coloured markers? (Leave your answer in the simplest form.)

b) How many coloured markers could she buy if she had spent all her money on coloured markers only?

Ans : a) _____ [2]

b) _____ [2]

13. Sue used $\frac{5}{8}$ of a string to tie presents and $\frac{2}{5}$ of the remaining string for decoration. 114 cm of the string was used for decoration. What was the length of the string used to tie presents? Leave your answer in metres and centimetres.

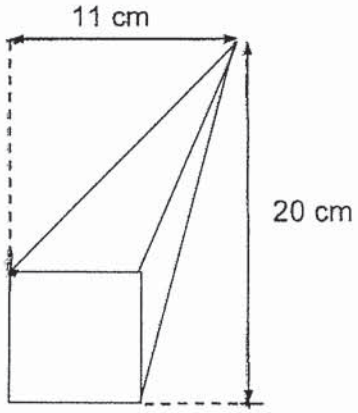
Do not write in this space

_____ [4]

14. The figure below is made up of a square and two triangles.
The area of the square is 64 cm^2.

(a) Find the length of the square.

(b) Find the total area of the figure.



Do not write in this space

Ans : a) _____ [1]

b) _____ [3]

15. The figure shows a sealed bottle of height 35 cm. It is made from two containers. The top container is in the form of a cuboid with a square base. The bottom container is in the form of a cube of side 20 cm. The height of the water in the bottle (shown in Figure A) is 18 cm.

Do not write in this spac

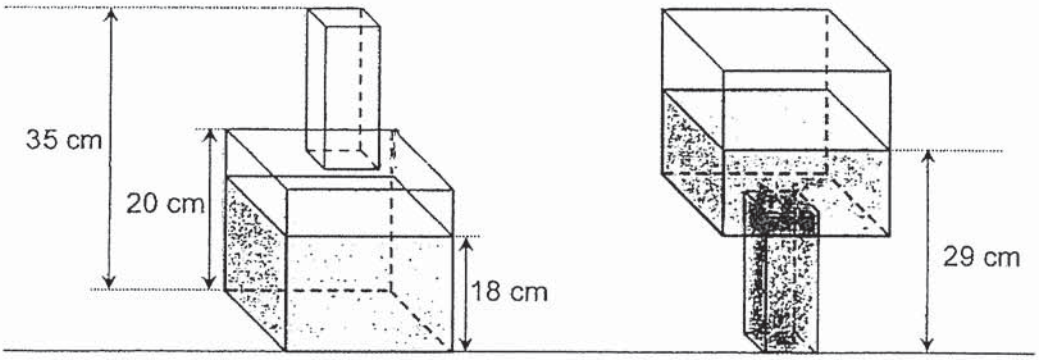


Figure A **Figure B**

When the same bottle is turned upside down (shown in Figure B), the height of the water in the bottle is 29 cm. How much water can the sealed bottle hold if it is completely filled?

Ans : _____ [3]

16. Auntie May had 327 more stickers than bookmarks. After selling $\frac{2}{3}$ of the stickers and half of the bookmarks, she had 254 stickers and bookmarks left.

Do not write in this space

(a) How many stickers and bookmarks did Auntie May have at first?

(b) How many stickers did she sell?

Ans : a) _____ [3]

b) _____ [2]

17. At a fruit shop, mangoes are sold at 5 for $9 while apples are sold at 7 for $8. Mr Teo bought an equal number of mangoes and apples. He spent $92 more on the mangoes. How many apples did Mr Teo buy?

Do not write in this space

Ans : _____ [5]

End of paper
Have you checked your work?

SCHOOL : Rosyth School
LEVEL : Primary 5
SUBJECT : Mathematics
TERM : SA2

Paper 1

Booklet A

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

Booklet B

Q16	$2\frac{1}{4}$
Q17	5.05
Q18	125
Q19	32
Q20	7:9
Q21	146
Q22	0.43
Q23	$96.30
Q24	150
Q25	540
Q26	52
Q27	30
Q28	105°
Q29	5
Q30(a)	$6
(b)	April

Paper 2

Q1 6.5 50 = 3 (cost of 2nd km onwards)
3 - = 10
10 x 500 = 5000
5000m = 5km
5 + 1 = **6**

Q2 1500 ÷ 100 = 15
15 x 1.80 = **27**

Q3 $\angle DFG = 180^\circ - 118^\circ = 62^\circ$
$\angle EGD = 62^\circ \div 2 =$ **31°**

Q4 $10 - 3.5 = 6.5$
$20 \times 8 \times 6.5 =$ **1040**

Q5 **(a) ✓ True**

$48 \times 3 = 144$ (total mass)
$144 + 5 + 7 = 156$
$156 \div 3 = 52$
$52 - 5 = 47$

(b) ✓ True

$50 \times 4 = 200$
$52 - 7 = 45$
$200 - 144 = 56$

Q6 $76 - 10 - 10 = 56$
$56 \div 4 =$ **14**

Q7 $\angle ABD = 360^\circ - 308^\circ = 52^\circ$
$\angle BAC / \angle ABC = 52^\circ \div 2 = 26^\circ$
$\angle x = 180^\circ - 26^\circ - 26^\circ =$ **128°**

Q8 $17 + 18 + 19 + 15 + 21 = 90$ (total time)
$90 \div 5 = 18$ (Average)
$18 - 0.5 = 17.5$
$17.5 \times 6 = 105$
$105 - 90 =$ **15**

Q9 $80 + 70 = 150$
$150 - 43 = 50$
$70 - 13$
$\frac{13}{50} \times 100\% =$ **26%**

Q10 **(a)** $\angle XYZ + \angle ZXY = 180^\circ - 90^\circ = 90^\circ$
$\angle XZY = 90^\circ \div 2 = 45^\circ$

(b) $\angle QYX = 90^\circ - 60^\circ = 30^\circ$
$\angle XQY = 180^\circ - 30^\circ - 45^\circ = 105^\circ$

Q11 **(a)** 9 units = 663 – 14
= 621
1 unit = 621 ÷ 9
= 69
4 units = 69 x 4
= **276**

(b) 267 + 28 = **304**

Q12 **(a)** $\frac{2}{9}$ of the total amount of money → 3 photo frames
$\frac{4}{9}$ of the total amount of money → 6 photo frames
4 + 2 = 6
9 = 6 = 3 (the rest of the money)
$\frac{3}{9} = \frac{1}{3}$

(b) $\frac{3}{9}$ of the total money →10 coloured markers
$\frac{9}{9}$ of the total money →10 x 3 = **30** coloured markers

Q13

presents	remaining		Total
5_{x5} **25**	3_{x5} **15**		8_{x5} **40**
	5_{x3} **15**		
25	2_{x3} **6**	3_{x3} **9**	**40**

6 units = 114 (for decoration)
1 unit = 19
25 units = 19 x 25 = 475
475cm = **4m 75cm**

Q14 **(a)** $\sqrt{64}$ = **8**

(b) 20 – 8 = 12
11 – 8 = 3
$\frac{1}{2}$ x 8 x 12 = 48
: 8 x 3 = **12**

Total Area — 12 + 48 + 64
= 124

Q15 35 – 20 = 15
20 x 20 x 18 = 7200 (amount of water)
29 – 15 = 14
20 x 20 x 14 = 5600 (Volume of water in cube container in Figure B)
7200 – 5600 = 1600 (Volume of water in the cuboid)
20 x 20 x 20 = 8000 (Capacity of the cube)
8000 + 1600 = **9600**

Q16

u - units p – parts	Stickers	Bookmarks
At first	3u	2p
Sold	2u	1p
Left	1u	1p

(a) 3u = 2p +327 (more stickers than bookmarks)

x3 (1u + 1p = 254 (left)
(3u) + 3p = 762

2p + 327 + 3p = 762
5p = 762 – 327
= 435
1p = 87
2p = 174 (bookmarks)
174 + 327 = 501 (Stickers)
501 + 174 = **675** (total)

(b) 254 – 87 = 167
167 x 2 = **334**

Q17

Mangoes	Apples
5 for $9	7 for $8
35 for $63	35 for $40

63 – 40 = 23 (1 group difference)
92 ÷ 23 = 4 (groups)
4 x 35 = **140**

4
2nd D