Rosyth School
Term Assessment 2024 (Term 1)
Mathematics
Primary 6
Paper 1

Name: _____ Register No. _____

Class: Pr 6 -_____

Date: 27 February 2024 Parent's Signature: _____

Total Time for Booklets A and B : 1 hour

BOOKLET B

Instructions to Pupils:

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. Do not use correction fluid/tape or highlighters.
6. You are **not** allowed to use a calculator.

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

* This booklet consists of **8** pages (including this cover 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 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 $\frac{5}{6} + \frac{1}{9}$.

Ans: _____

17. What is the missing number in the box?

12 : 15 = ☐ : 35

Ans: _____

18. Express 7.3 as a percentage.

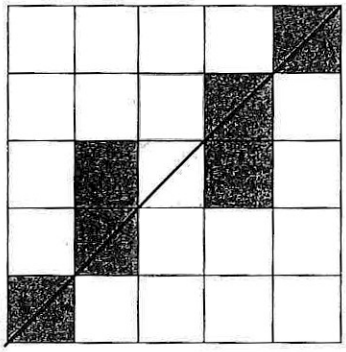
Ans: _____ %

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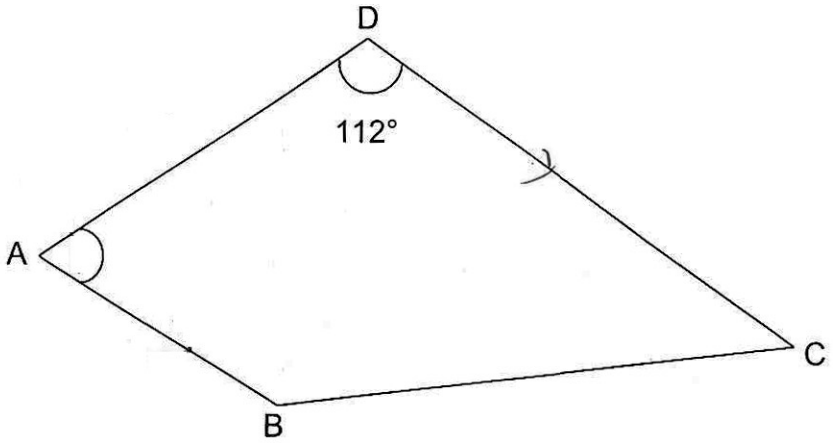
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19. The figure below is made up of identical squares. Six of them are shaded. Shade two more squares so that AB is the line of symmetry for the figure.

Do not write in this space



20. ABCD is a trapezium with ~~AB parallel to DC~~. $\angle ADC = 112°$.
Find $\angle BAD$.



Ans: _____ °

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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 sum of all the common factors of 21 and 35.

Ans: _____

22. There are some pens in a container. $\frac{1}{3}$ of the pens are red. After Mr Lim added 15 red pens into the container, $\frac{4}{9}$ of the pens in the container are red.
How many red pens did Mr Lim have in the container at first?

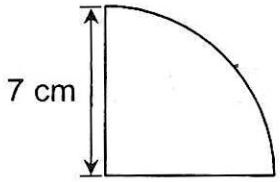
Ans: _____

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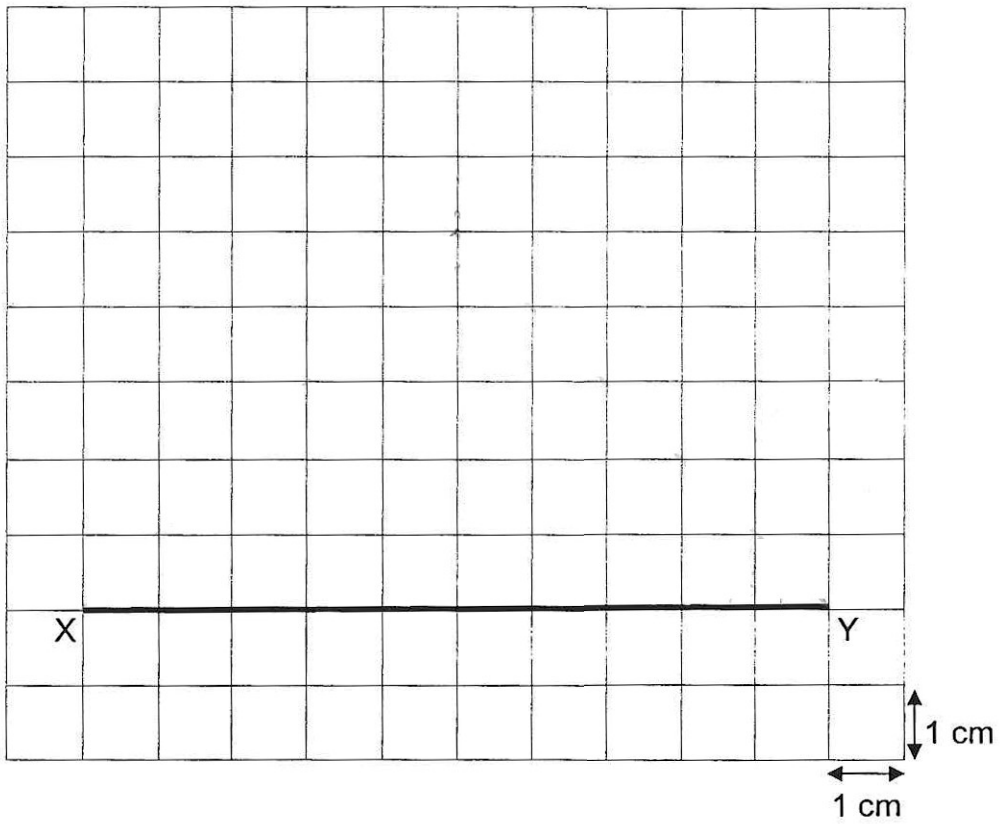
Do not write in this space

23. Find the perimeter of the quarter circle below. Take $\pi = \frac{22}{7}$.



Ans: _____cm

24. Using the square grid below, draw and label an isosceles triangle WXY. ~~$\angle XYZ$~~ $\angle XYW$ = 45° and WX = WY. Measure the length of WX.



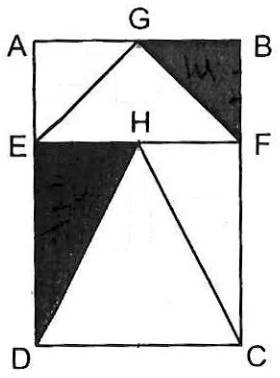
Ans: _____cm

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25. In the diagram below, the length of DE is twice the length of EA. G is the mid-point of AB and AE = AG. EFG and DCH are isosceles triangles. What fraction of the figure is shaded? Give your answer in the simplest form.

Do not write in this space



Ans: _____

26. The library had 17 shelves with an equal number of books on each shelf. Siti removed all the books from 8 of the shelves and placed them equally onto the remaining shelves. She found that these remaining shelves had 24 more books each. How many books were on each shelf at first?

Ans: _____

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27. Containers A, B and C had an equal amount of water at first. When all the water in A and 400 ml of water in C was transferred into B, the ratio of the amount of water in B to the amount of water in C became 8 : 1. How much water was there in each container at first?

Do not write in this space

Ans: _____ ml

28. A school has 1500 pupils. 40% of them are girls. 60% of the boys go to school by bus. How many boys go to school by bus?

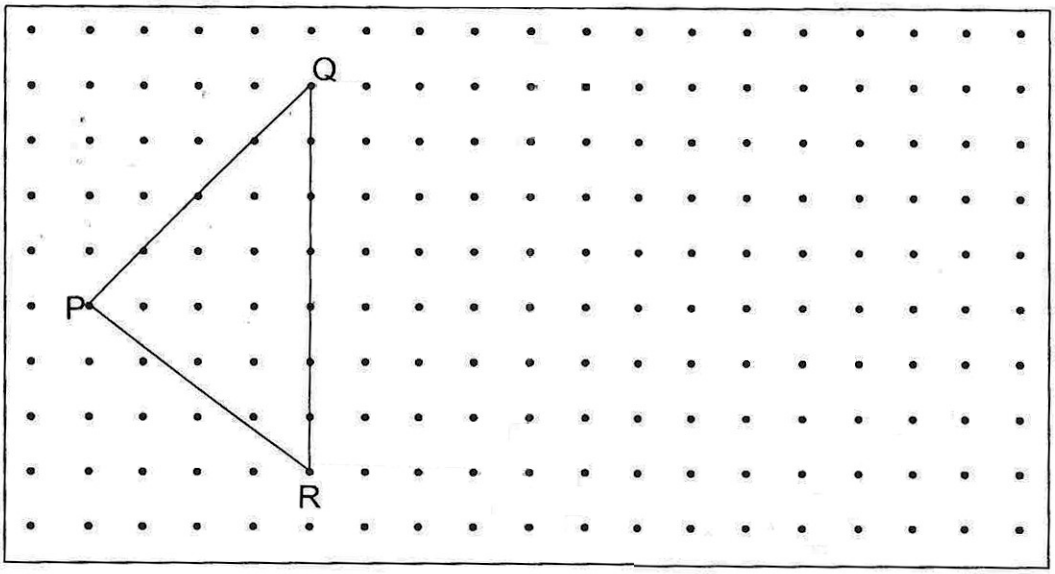
Ans: _____

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29. A triangle PQR is drawn inside a box. By joining the dots on the grid with straight lines, draw a rectangle QRST such that its area is 2 times the area of triangle ~~ABC~~ PQR.

Do not write in this space



30. Every month, Gary saved $300 of his salary and spent the rest. In December, his spending increased by 4% and he only managed to save $240. How much was his salary?

Ans: $ _____

End of paper
Have you checked your work?

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Rosyth School
Term Assessment 2024 (Term 1)
Mathematics
Primary 6
Paper 2

Name: _____ Register No. _____

Class: Pr 6 - _____

Date: 27 February 2024 Parent's Signature: _____

Time: 1 h 30 min

Instructions to Pupils:

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. Do not use correction fluid/tape or highlighters.
6. The use of an approved calculator is allowed.

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 **15** pages (including this cover page)

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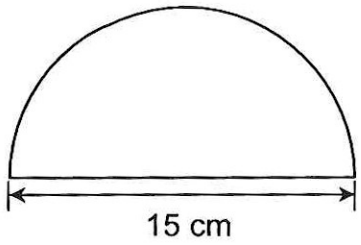
Questions **1** to **5** carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(10 marks)

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

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1. The semicircle below has a diameter of 15 cm.
   Using the calculator value of π, find its area, correct to 2 decimal places.



Ans: _____ cm^2

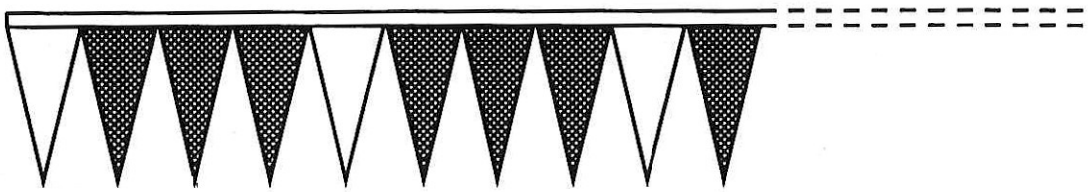
2. A choir has 40 male members and 65 female members. 15% of the male members and 20% of the female members are students. What percentage of the members are students?

Ans: _____ %

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3. A school stage is decorated with a banner made up of 263 red and white triangles. One end of the banner is shown below. There are at least 3 red triangles between any 2 white triangles. What is the largest possible number of white triangles on the banner?



Do not write in this space

Ans: _____

4. Ahmad, Banu and Caili had a total of 725 marbles. Bala had four times as many marbles as Ahmad. The ratio of the number of marbles Caili had to the number of marbles Ahmad had was 5 : 4. How many marbles did Banu have?

Ans: _____

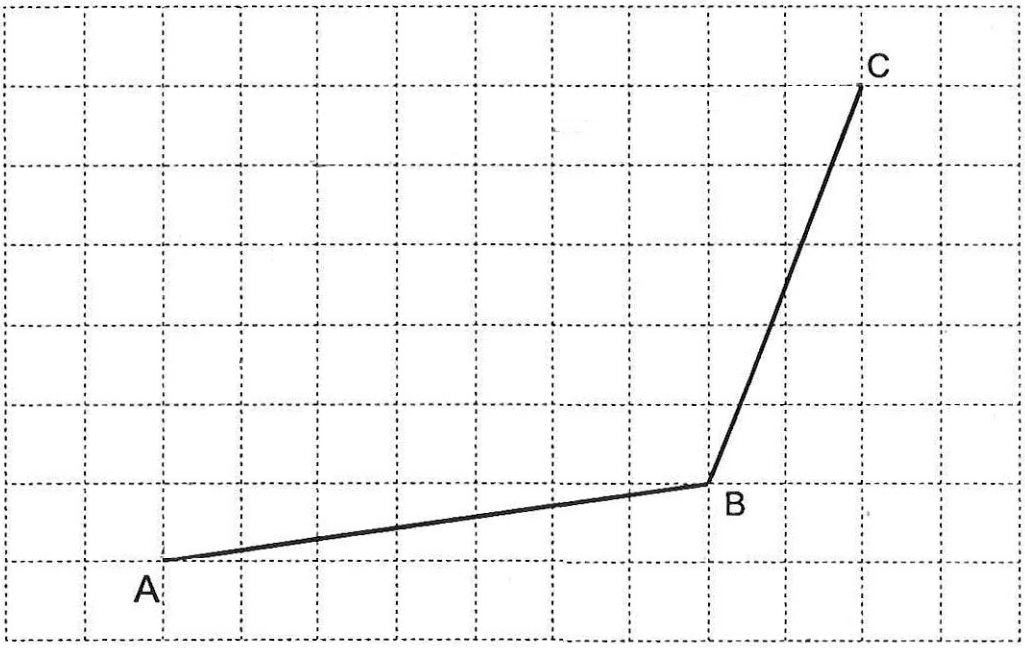
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5. The figure below shows two straight lines AB and BC.

Do not write in this space

(a) Draw 2 lines to form a parallelogram ABCD. Label Point D.



(b) Measure ∠ ABC.

Ans: (b) _____ °

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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)

Do not write in this space

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

6. Gina had 56 more stamps than John. When John gave Gina 22 of his stamps, Gina had 5 times as many stamps as John. How many stamps did John have at first?

Ans: _____ [3]

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7. Jean, Nancy and Francis had a number of sweets in the ratio 5 : 2 : 6. After Francis gave 30% of his sweets to Jean and Nancy, the number of sweets that Nancy had increased by 50%. What is the ratio of sweets Jean had to the number of sweets Nancy had in the end?

Do not write in this space

Ans: _____ [3]

8. Mrs Teo and Mr Lim bought the same type of washing machine from a store. Mrs Teo paid $720 for her washing machine after a 20% discount. However, Mr Lim only paid $585 for his washing machine after the discount. What was the percentage discount given to Mr Lim?

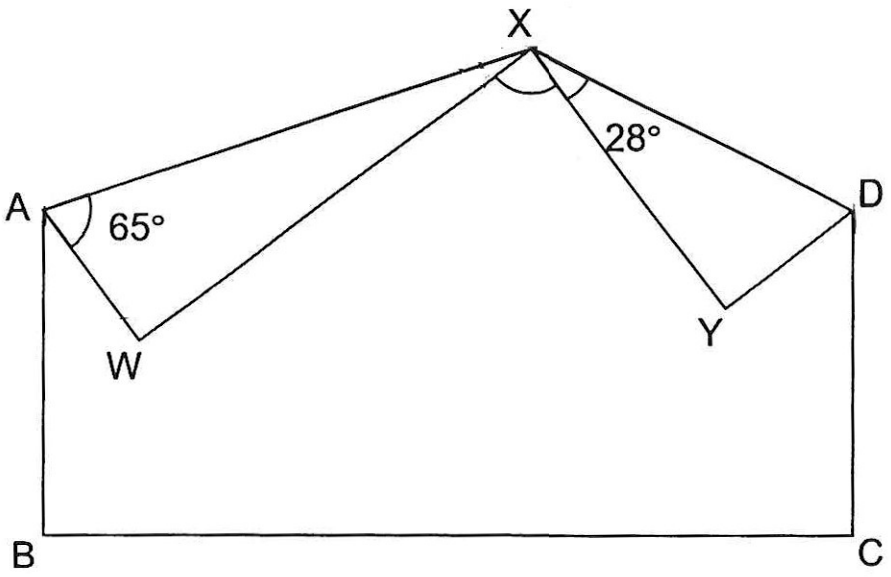
Ans: _____ [3]

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9. In the figure below, a rectangular piece of paper is folded at the top 2 corners W and Y as shown. What is the value of ∠WXY?

Do not write in this space



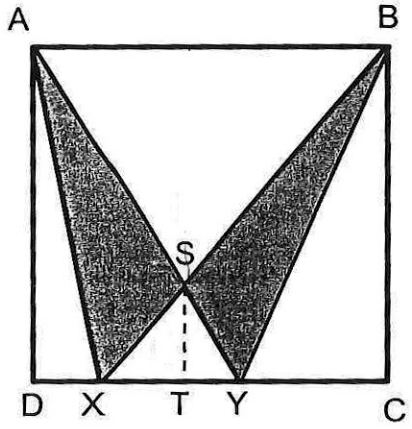
Ans: _____ [3]

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10. In the figure below, triangle AXB and triangle AYB are drawn within a square ABCD. The area of the square is 100 cm². The length of ST is $\frac{2}{5}$ of the length of AB. Find the total area of the shaded parts.

Do not write in this space



Ans: _____ [3]

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11. Bag A had 1.9 kg of rice and Bag B had 2.28 kg of rice. After an equal mass of rice was taken from both bags, the mass of rice in Bag A became 30% of the total mass of rice left in both bags. Find the total mass of rice removed, in kg, from both bags.

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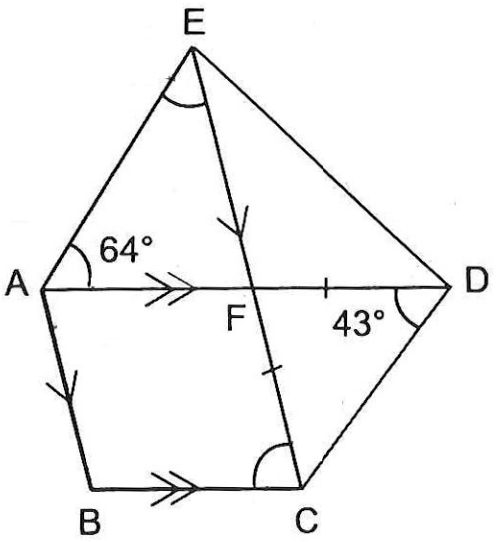
Ans: _____ [4]

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12. ABCD and ABCE are two trapeziums. CDF is an isosceles triangle. AFD and CFE are straight lines. $\angle CDF = 43°$ and $\angle EAF = 64°$.

Do not write in this space



(a) Find $\angle$ FCB.

Ans: (a) _____ [2]

(b) Find $\angle$ AEC.

Ans: (b) _____ [2]

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13. In Country X, the height of six 10-cent coins is the same as the height of five 20-cent coins as shown in diagram 1. Diagram 2 shows an unknown number of such 10-cent coins stacked to the same height as another stack of such 20-cent coins. The total value of the 2 stacks of coins in Diagram 2 is $88.

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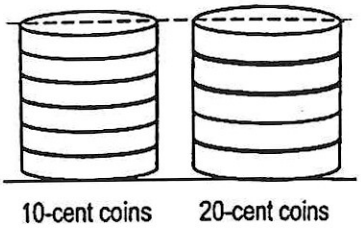


Diagram 1

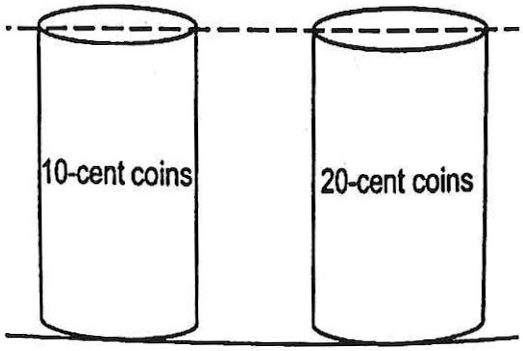


Diagram 2

(a) Find the number of 10-cent coins used in Diagram 2.

Ans: (a) _____ [2]

(b) Find the value of all the 20-cent coins used in Diagram 2.

Ans: (b) _____ [2]

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14. A band held a two-night concert. 150 more male adults than female adults attended the concert on the first night. For the second night concert, the number of female adults decreased by 15% and the number of male adults increased by 30%. A total of 1270 adults attended the concert on the second night. Find the total number of adults who attended the concert over two nights.

Do not write in this space

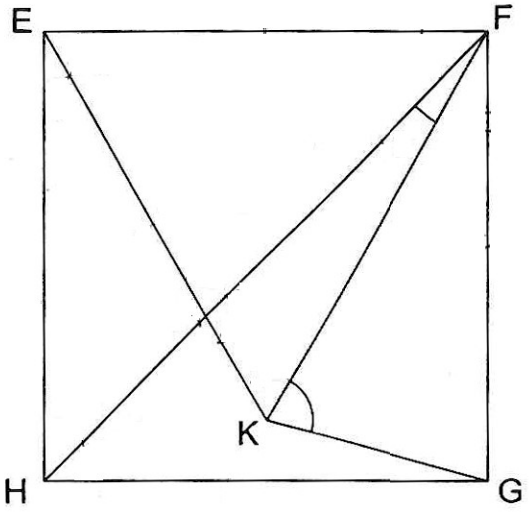
Ans: _____ [4]

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15. EFGH is a square and EFK is an equilateral triangle.

Do not write in this space



(a) Find ∠HFK.

Ans: (a) _____ [2]

(b) Find ∠FKG.

Ans: (b) _____ [2]

(Go on to the next page)

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16. Adam had some money. He spent $\frac{2}{5}$ of it on 3 identical pens. He bought another 2 of such pens and 15 identical erasers with the rest of his money.

Do not write in this space

(a) What fraction of his money was spent on the 15 erasers? Express your answer in its simplest form.

Ans: (a) _____ [2]

(b) In a sale, Adam would be given 1 free eraser for every 6 erasers bought. How many erasers would he get altogether if he had spent all his money on the erasers?

Ans: (b) _____ [3]

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17. There are 48 boys in Badminton Club and 16 boys in Tennis Club. There are 2 more students in Badminton Club than in Tennis Club. The number of girls in Badminton Club is 75% of the number of girls in Tennis Club.

Do not write in this space

(a) How many girls are there in Tennis Club?

Ans: (a) _____ [2]

(b) Some girls ~~joined~~ left the Tennis Club. As a result, 32% of the students in the Tennis Club were boys. What is the ratio of the total number of boys to the total number of girls now?

Ans: (b) _____ [3]

End of paper
Have you checked your work?

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Rosyth Primary School Term 1 Math WA 2024 (P6)

Paper 2

Q1) $d = 15$

$r = 15 \div 2$

$= 7.5$

Area $= \pi \times r \times r \times \frac{1}{2}$

$= \pi \times 7.5 \times 7.5 \times \frac{1}{2}$

≈ 88.36 //

Q2) Male students $\rightarrow \frac{15}{100} \times \frac{40}{1}$

$= 6$

Female students $\rightarrow \frac{20}{100} \times \frac{65}{1}$

$= 13$

No. of students $= 6 + 13 = 19$

Total members $= 40 + 65 = 105$

% of students $= \frac{19}{105} \times 100\%$

$\approx 18.10\%$ //

Q3) $263 \div 4 = 65$ R 3

(groups)

No. of white $\Delta = 65 \times 1 + 1$

$= 66$ //

Q4)

	A	:	B	:	C	:	Total
x4	1	:	4				
x4	4	:	16				
	4	:	5				
	4	:	16	:	5	:	25

$25u \rightarrow 725$

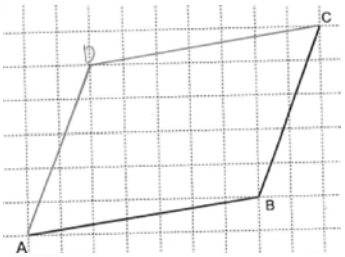
$1u \rightarrow 725 \div 25$

$= 29$

$16u \rightarrow 29 \times 16$

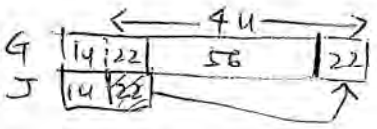
$= 464$ //

Q5) (a)



(b) $120°$ //

Q6)



$4u \rightarrow 22 + 56 + 22 = 100$

$1u \rightarrow 100 \div 4 = 25$

$J \rightarrow 25 + 22 = 47$ //

Q7)

	J	:	N	:	F
	5	:	2	:	6
x5	25	:	10	:	30
	+4		+5		-9
	29	:	15	:	21 (in the end)

F gave away $\rightarrow \frac{30}{100} \times 30u = 9u$

Ans: 29 : 15 //

Q8) 80% (paid) $\rightarrow \$720$

1% $\rightarrow \$9$

100% $\rightarrow \$900$

Discount $\rightarrow \$900 - \$585$

$= \$315$

% discount $\rightarrow \frac{\$315}{\$900} \times 100\%$

$= 35\%$ //

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Q9) $\angle ZXW \rightarrow (90° - 65°) \times 2 = 50°$

$\angle WXY \rightarrow 180° - 50° - 28° - 28°$

$= 74°$ //

Q10) $\triangle ABS \rightarrow 6 \times 10 \div 2 = 30$

$\triangle AXS + \triangle SYB$

$= (100 \div 2 - 30) \times 2$

$= 40$

Ans: $40\ cm^2$ //

Q11)

A	B	Difference
1.9kg	2.28kg	0.38 kg
3u	7u	4u

Diff $\rightarrow$ 2.28 kg - 1.9kg

$= 0.38$ kg

$7u - 3u = 4u$

$4u \rightarrow 0.38$ kg

$1u \rightarrow 0.095$ kg

$3u \rightarrow 0.285$ kg (A left)

Removed $\rightarrow (1.9 - 0.285)$ kg

$= 1.615$ kg.

Total removed $= 1.615$ kg $\times 2$

$= 3.23$ kg //

Q12) (a) $\angle DCF = 43°$

$\angle CFD = 180° - 43° - 43°$

$= 94°$

$\angle AFE = 94°$ (vertically opposite)

$\angle FCB = 94°$ //

(b) $\angle AEF = 180° - 64° - 94°$

$= 22°$ //

Q13) 1 group $= 6 \times \$0.10 + 5 \times \$0.20$

$= \$0.60 + \$1.00$

$= \$1.60$

$\$88 \div \$1.60 = 55$ (groups)

(a) $55 \times 6 = 330$ //

(b) $55 \times \$1.00 = \$55$ //

Q14) 1st night

M	100%	150
F	100%	

2nd night

M	100%	150	30%	45	} 1270
F	85%				

$\frac{150}{1} \times \frac{30}{100} = 45$.

$100\% + 85\% + 30\% = 1270 - 150 - 45$

$215\% = 1075$

$1\% = 5$

1st night (100%) F $= 5 \times 100 = 500$

1st night M $\rightarrow 500 + 150 = 550$

Total for two nights $= 1270 + 500 + 550$

$= 2420$ //

Q15) $\angle EFH = 45°$

(a) $\angle HFK = 60° - 45°$

$= 15°$ //

(b) $\angle KFG = 45° - 15°$

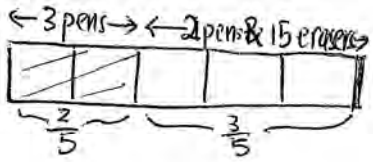
$= 30°$

$\angle FKG = \frac{180° - 30°}{2}$ (isosceles $\triangle$)

$= 75°$ //

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Q16)



(a) 3 pens → $\frac{2}{5}$

1 pen → $\frac{2}{5} \div 3$

$= \frac{2}{5} \times \frac{1}{3}$

$= \frac{2}{15}$

2 pens $= \frac{2}{15} \times \frac{2}{1} = \frac{4}{15}$

15 erasers $= \frac{3}{5} - \frac{4}{15}$

$= \frac{9}{15} - \frac{4}{15}$

$= \frac{5}{15}$

$= \frac{1}{3}$ //

(b) $\frac{1}{3}$ money = 15 erasers

$\frac{3}{3}$ money = 15 x 3

= 45 erasers.

45 ÷ 6 = 7 R3

↙

(7 groups)

⇒ 7 free erasers

Total erasers = 45 + 7

= 52 //

Q17)

Boys

B	16	32
T	16	

Girls

B	1u	1u	1u
T	1u	1u	1u	1u

Total

B	16	32	3u
T	16	4u	

⇓

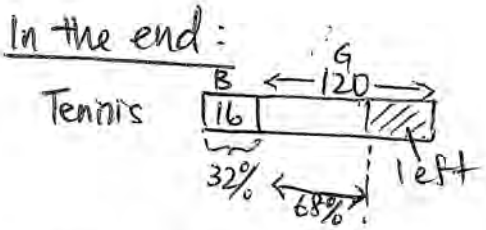
B	16	3u	30 : 2
T	16	4u	

(a) 1u = 30

4u = 30 x 4

= 120 //

(b) In the end:



32% → 16

1% → $\frac{1}{2}$

68% → $\frac{1}{2} \times 68 = 34$ (girls left behind)

Girls in Badminton (3u) = 3 x 30

= 90

Total Girls = 90 + 34

= 124

Total Boys = 48 + 16

= 64

B : G
64 : 124
16 : 31

Ans: 16 : 31 //

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