Rosyth School
Mid-Year Examination 2022
Mathematics
Primary 4

Name : _____ _____ ( )

Class : Pr 4 - _____

Date : 11 May 2022

Total: 100

Duration: 1h 45 min

Parent's Signature: _____

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. This paper consists of 3 parts: Sections A, B and C.
5. For questions 1 to 15 in Section A, shade your answers in the Optical Answer Sheet (OAS).

	Maximum Marks	Marks Obtained
Section A	**30**	
Section B	**42**	
Section C	**28**	
Total	**100**	

* This paper **consists of 20 printed pages** altogether (including the cover page).

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Section A (30 marks)

Questions **1** to **15** carry 2 marks each. For questions 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct ovals (1, 2, 3 or 4) onto the Optical Answer Sheet provided.

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

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1. In 1568, what does the digit 5 stand for?

   (1) 5 ones

   (2) 5 tens

   (3) 5 hundreds

   (4) 5 thousands

2. 30 x 20 = _____

   (1) 6

   (2) 60

   (3) 600

   (4) 6000

3. 1304 x 7 = _____

   (1) 7108

   (2) 7128

   (3) 9108

   (4) 9128

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4. Which of the following is an equivalent fraction of $\frac{3}{4}$?

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

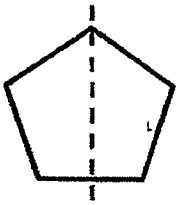
(2) $\frac{4}{3}$

(3) $\frac{6}{8}$

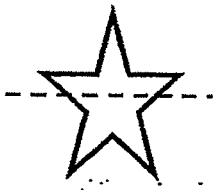
(4) $\frac{9}{16}$

5. Which of the following shows a correct line of symmetry?

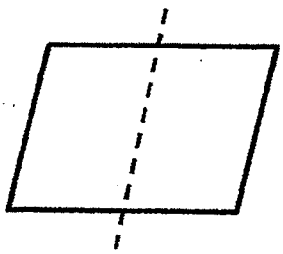
(1)



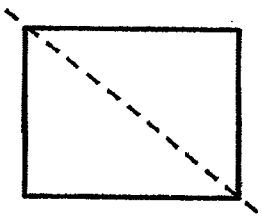
(2)



(3)



(4)

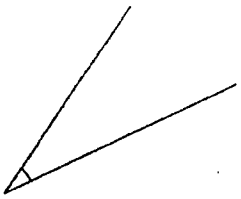


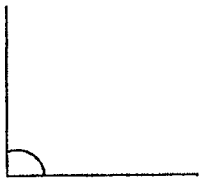
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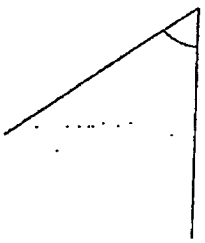
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6. Which of the following angles is greater than a right angle?

(1) 

(2) 

(3) 

(4) 

7. A number is 26 000 when rounded to the nearest hundred. Which of the following could be the number?

(1) 25 485

(2) 25 953

(3) 26 487

(4) 26 549

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8. What is the remainder when 6387 is divided by 8?

(1) 1

(2) 5

(3) 3

(4) 7

9. There were 36 marbles. Daniel took $\frac{2}{3}$ of the marbles and Jane took the rest of them. How many marbles did Jane take?

(1) 6

(2) 12

(3) 18

(4) 24

10. Which of the following fractions is closest to 1?

(1) $\frac{8}{7}$

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

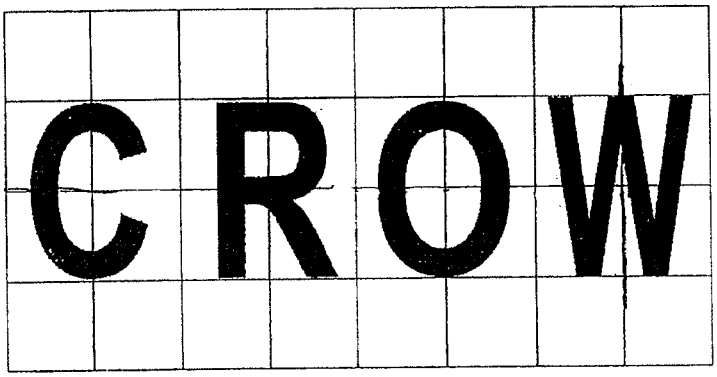
(3) $\frac{5}{7}$

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

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11. Which of the following letters is **not** symmetric?



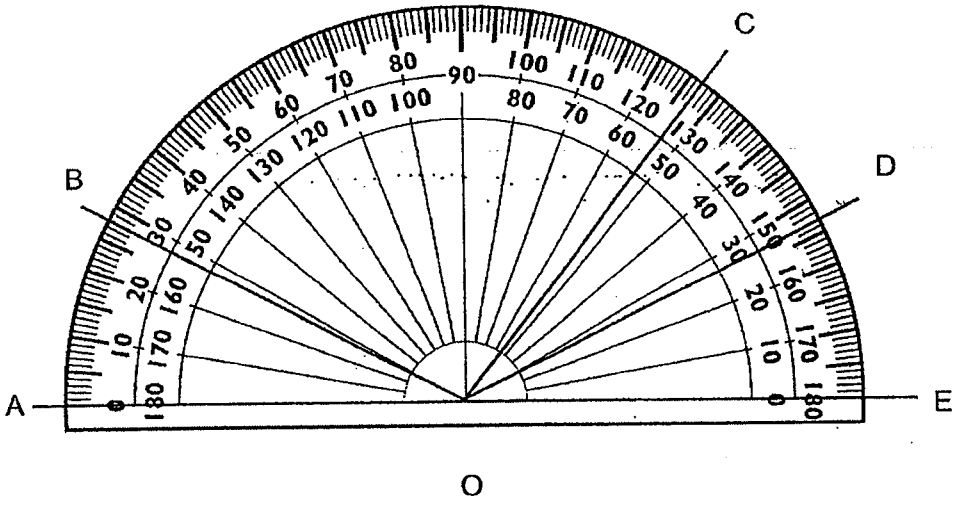
(1) C

(2) R

(3) O

(4) W

12. Which of the following angles is 27°?



(1) ∠DOE

(2) ∠COD

(3) ∠BOC

(4) ∠AOB

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13. Sally wanted to pack 40 apples and 56 oranges into as many bags as possible with no remainder. She packed the same number of fruits in each bag. The number of apples in each bag was the same. How many fruits were there in each bag?

(1) 5

(2) 8

(3) 12

(4) 16

14. Kevin had 135 straws at first. His sister then gave him 20 straws. After that, they had the same number of straws. How many straws did his sister have at first?

(1) 115

(2) 145

(3) 155

(4) 175

15. A box is $\frac{1}{8}$ filled with cubes. After another 36 cubes are put into the box, it became $\frac{3}{8}$ filled. How many more cubes are needed to fill the box completely?

(1) 18

(2) 90

(3) 108

(4) 144

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Section B (42 marks)

Questions **16** to **36** 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.

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

16. 1 and 63 are factors of 63. List all the other factors of 63.

Ans: _____

17. Arrange the following numbers from the smallest to the greatest.

51 020 , 50 120 , 51 002 , 50 210

Ans: _____ (smallest) , _____ , _____ , _____ (greatest)

18. 8396 ÷ 9 = _____

Ans: _____

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19. Find the product of 64 and 409.

Do not write in this space

Ans: _____

20. What is the missing digit in the box?

$$\begin{array}{r} \square\,1\,7 \\ \times \qquad 8 \\ \hline 3\,3\,3\,6 \end{array}$$

Ans: _____

21. Express $\frac{11}{3}$ as a mixed number.

Ans: _____

22. What is the missing number in the box?

$$\frac{4}{5} = \frac{\boxed{?}}{25}$$

Ans: _____

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23. Write $3\frac{5}{6}$ as an improper fraction.

Do not write in this space

Ans: _____

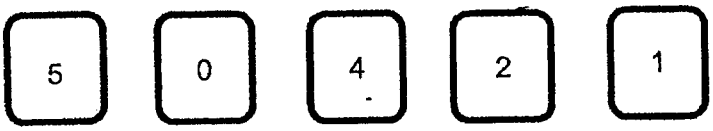
24. Add $\frac{2}{3}$ and $\frac{1}{4}$.

Ans: _____

25. Find the difference between 1693 and 2308.
Round the answer to the nearest ten.

Ans: _____

26. Form the smallest 5-digit even number using all the number cards below.



Ans: _____

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27. Mrs Lim baked 255 muffins. She packed them into boxes of 6 muffins each. What was the least number of boxes Mrs Lim needed to pack all the muffins?

Do not write in this space

Ans: _____

28. David has 890 beads.
He has 5 times as many beads as Ali.
How many beads do the two boys have altogether?

Ans: _____

29. Ken bought 34 red pens and 16 green pens.
What fraction of the total number of pens was green?
Give your answer in the simplest form.

Ans: _____

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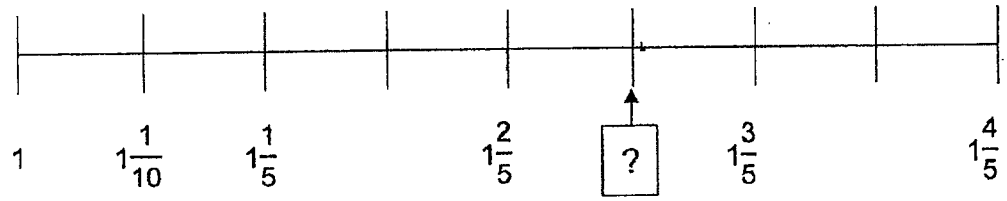
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30. John had \$63. He spent $\frac{7}{9}$ of his money on a bag.
How much money did he have left?

Do not write in this space

Ans: \$_____

31. Look at the number line below.
What is the missing mixed number in the box?
Give your answer in the simplest form.



Ans: _____

32. James mixed 2 kg of flour with $\frac{1}{2}$ kg of butter to make a dough. How much more flour did he use than butter?

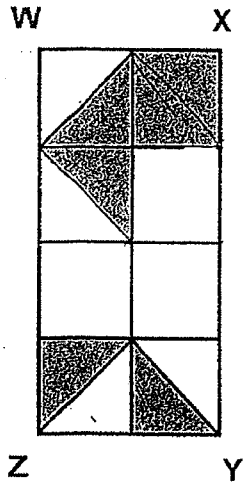
Ans: _____ kg

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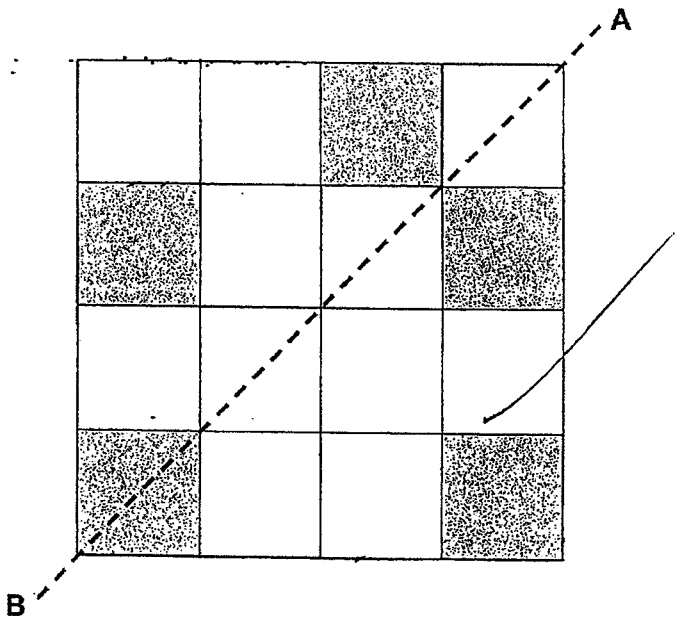
33. In the figure below, rectangle WXYZ is made up of 8 identical squares.
What fraction of rectangle WXYZ is shaded?
Give your answer in its simplest form.

Do not write in this space



Ans: _____

34. The figure below is made up of squares. Shade **two** squares to form a symmetric figure with AB as the line of symmetry.

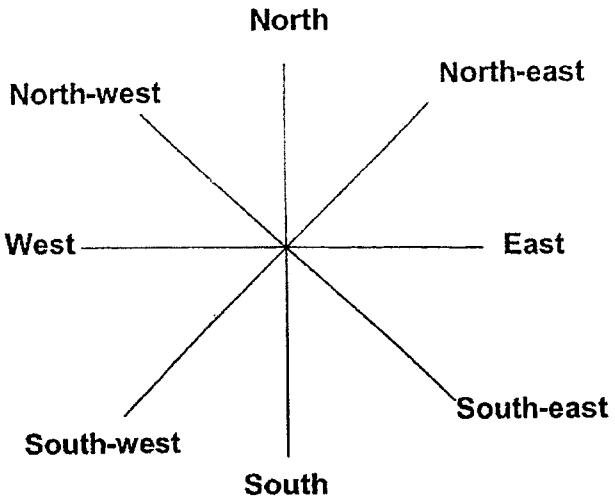


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35. Evan is standing in the middle of the 8-point compass facing North-east. Where will he be facing if he makes a 135° turn anti-clockwise?

Do not write in this space



Ans: _____

36. Ahmad has 60 beads. $\frac{1}{2}$ of the beads are green, $\frac{1}{4}$ of the beads are blue, and the rest of the beads are purple. How many purple beads does Ahmad have?

Ans: _____

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Section C (28 marks)

Questions **37** to **40** carry 3 marks each. Questions **41** to **44** carry 4 marks each. 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.

Do not write in this space

37. The difference between 2 numbers is 320.
The greater number is 3 times as much as the smaller number.
Find the greater number.

Ans: _____ [3]

38. Suresh bought 2 cakes and 5 pizzas for $252.
Each cake cost twice as much as each pizza.
How much did each cake cost?

Ans: _____ [3]

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39. Jane had some flour. The mass of the flour was between 20 kg and 35 kg. If she packed the flour into bags of 3 kg, she will have 1 kg of flour left. If she packed the flour into bags of 5 kg, she will have 3 kg of flour left. What was the mass of the flour Jane had?

Do not write in this space

Ans: _____ [3]

40. Two jugs, A and B, contained some water. Jug A contained $\frac{2}{5}\ell$ of water. Jug B contained $\frac{1}{2}\ell$ more water than Jug A. What was the total amount of water in both jugs? Give your answer as a mixed number in the simplest form.

Ans: _____ [3]

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41. A fruit seller bought 6 boxes of apples. Each box contained 85 apples. He then sold all the apples at 5 for $3.

Do not write in this space

(a) How many apples did he buy altogether?

Ans: (a) _____ [2]

(b) How much money did he collect by selling all the apples?

Ans: (b) _____ [2]

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42. Mrs Tan bought some chocolates. She packed the chocolates into boxes. Each box had 28 chocolates. After packing them, she found that she had 46 boxes of chocolates and 17 chocolates left.

Do not write in this space

(a) How many chocolates did she buy altogether?

Ans: (a) _____ [2]

(b) Mrs Tan decided to repack all the chocolates into smaller packets of 9 chocolates each. How many packets of chocolates would she have?

Ans: (b) _____ [2]

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43. Andy and Bala had a total of $1935. Bala and Collin had a total of $2515. Collin had three times as much money as Andy.

Do not write in this space

(a) How much money did Andy have?

Ans: (a) _____ [2]

(b) How much money did the three boys have in total?

Ans: (b) _____ [2]

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44. There were some muffins in the box. Susan took $\frac{1}{5}$ of the muffins, Penny took $\frac{1}{2}$ of the muffins and Betty took the remaining 15 muffins.

Do not write in this space

(a) What fraction of the muffins did Betty take?

Ans: (a) _____ [2]

(b) How many muffins were there in the box at first?

Ans: (b) _____ [2]

End of Paper

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LEVEL : PRIMARY 4
SUBJECT : MATHEMATICS
TERM : 2022 SA1

PAPER 1 BOOKLET A

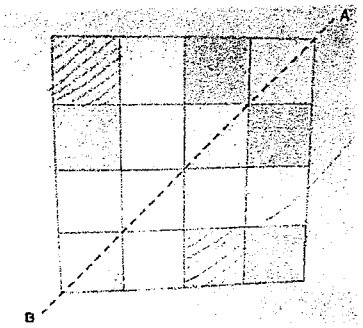
Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
3	3	4	3	1	1	2	3	2	1
Q 11	Q12	Q13	Q14	Q15					
2	1	3	4	2					

PAPER 1 BOOKLET B

Q16)	3 , 7 , 9 , 21
Q17)	50120 , 50210 , 51002 , 51020
Q18)	932R8
Q19)	26176
Q20)	4
Q21)	$3\frac{2}{3}$
Q22)	20
Q23)	$\frac{23}{6}$
Q24)	$\frac{11}{12}$
Q25)	620
Q26)	10254
Q27)	43
Q28)	1068
Q29)	$\frac{8}{25}$
Q30)	$14
Q31)	$1\frac{1}{2}$
Q32)	$1\frac{1}{2}$ kg

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Q33)	$\frac{3}{8}$
Q34)	
Q35)	West
Q36)	15
Q37)	2u ---- 320 1u ---- 320 ÷ 2 = 160 3u ---- 160 x 3 = 480
Q38)	9u ---- 252 1u ---- 252 ÷ 9 = 28 2u ---- 28 x 2 = $56
Q39)	28kg
Q40)	B ---- $\frac{4}{10} + \frac{5}{10} = \frac{9}{10}$ T ---- $\frac{9}{10} + \frac{4}{10} = \frac{13}{10} = 1\frac{3}{10}$L
Q41)	a) 6 x 85 = 510 b) s ---- 510 ÷ 5 = 102 m ---- 102 x 3 = $306
Q42)	a) b ---- 46 x 28 = 1288 t ---- 1288 + 17 = 1305 b) 1305 ÷ 9 = 145
Q43)	a) 2u ---- 2515 – 1935 = 580 1u ---- 580 ÷ 2 = $290 b) 3u ---- 290 x 3 = 870 t ---- 1935 + 870 = $2805
Q44)	a) $\frac{3}{10}$ b) 3u ---- 15 1u ---- 15 ÷ 3 = 5 10u ---- 5 x 10 = 50

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