Anglo-Chinese School
(Primary)
A Methodist Institution
(Founded 1886)

2023 END-OF-YEAR EXAMINATION
MATHEMATICS
BOOKLET A
PRIMARY THREE

Name: _____ ( ) Class: Primary 3 ___

Date: 24 October 2023 Duration of Booklets A & B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 6 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Shade your answers on the Optical Answer Sheet (OAS) provided.

Section A (10 x 2 marks each)

For each of the following questions, four options are given. Choose the correct option and shade its oval (1, 2, 3 or 4) in the Optical Answer Sheet provided.

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1. Which digit in 9304 is in the hundreds place?

   (1) 0

   (2) 9

   (3) 3

   (4) 4

2. What is the value of 21 tens, 5 hundreds and 3 ones?

   (1) 263

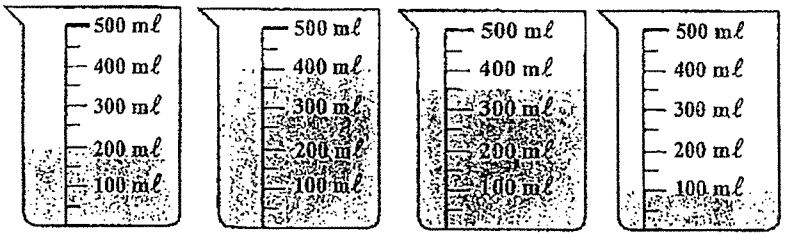
   (2) 524

   (3) 713

   (4) 740

3. Jenna prepared some lemonade for a party.

What is the total volume of lemonade she prepared in litres and millilitres?



(1) 1 ℓ 500 mℓ

(2) 1 ℓ 150 mℓ

(3) 1 ℓ 50 mℓ

(4) 1 ℓ

4. Arrange the following numbers from the smallest to the largest.

	Smallest			Largest
(1)	4501 ,	4051 ,	5041 ,	5401
(2)	4051 ,	4501 ,	5401 ,	5041
(3)	4051 ,	4501 ,	5041 ,	5401
(4)	5401 ,	5041 ,	4501 ,	4051

5. Benny had some marbles at first.
He gave 4 of his friends 268 marbles each and had 4 marbles left.
How many marbles did Benny have at first?

(1) 1072

(2) 1076

(3) 876

(4) 611

6. When a number is divided by 6, the quotient is 24.
The remainder is 5. What is the number?

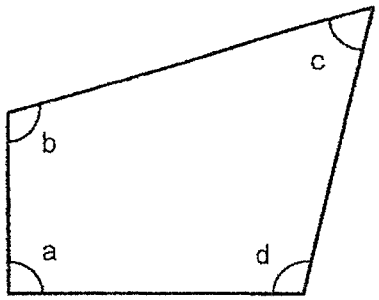
(1) 126

(2) 139

(3) 144

(4) 149

7. In the figure below, which one of the following angles is smaller than a right angle?



(1) ∠a

(2) ∠b

(3) ∠c

(4) ∠d

8. Which of the following is **not** an equivalent fraction of $\frac{1}{6}$?

(1) $\frac{5}{30}$

(2) $\frac{2}{12}$

(3) $\frac{3}{18}$

(4) $\frac{3}{24}$

9. Which of the following has the longest distance?

(1) 88 km

(2) 8 km 80 m

(3) 8000 m

(4) 8888 m

10. Daniel and his friends left Bird Paradise at 18 20.
They spent 7 h 55 min at Bird Paradise.
What time did they reach Bird Paradise?

(1) 02 15

(2) 10 15

(3) 10 25

(4) 11 05

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2023 END-OF-YEAR EXAMINATION
MATHEMATICS
BOOKLET B
PRIMARY THREE

Name: _____ ( ) Class: Primary 3 ___

Date: 24 October 2023 Duration of Booklets A & B: 1 hour 45 minutes

_____
Parent's/Guardian's signature

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of 16 printed pages, including the cover page.
2. Do not turn this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.

Section	Maximum Marks	Marks Obtained
A. Multiple-Choice Questions	20	
B. Short Answers	38	
C. Problem Sums	22	
Total Marks	80	

SECTION B - Short Answers (38 Marks)

Questions 11 to 20 carry 1 mark each. Questions 21 to 34 carry 2 marks each.
Show all workings and mathematical statements clearly in the space below each question.
Write your answer in the space provided. Express your answers in the units stated and in its simplest form whenever possible.

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11. Write nine thousand, seven hundred and twelve in numerals.

Answer: _____

12. Form the greatest 4-digit **odd** number using all the digits shown in the cards below.

4	0	3	5

Answer: _____

13. Study the number pattern below. What is the missing number?

3657 , _____ , 3755 , 3804 , 3853

Answer: _____

14. A set of numbers is shown below.

Which 2 numbers add up to 831?

471	534	307	360

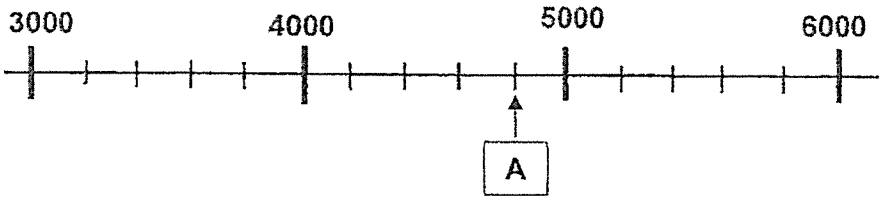
Answer: _____ and _____

15. Complete the following equation.

9 x 8 = ☐ - 18

Answer: _____

16. The number line below is marked at equal intervals.
What is the value of A on the number line?



Answer: _____

17. Write the time in 24-hour clock.

12-hour clock	24-hour clock
12.01 a.m.	

Answer: _____

18. What is the missing denominator in the box?

$$\frac{2}{7} = \frac{12}{\square}$$

Answer: _____

19. Find the missing number in the box.

$\square \times 3 = 927$

Answer: _____

20. Find the difference between 4010 and 419.

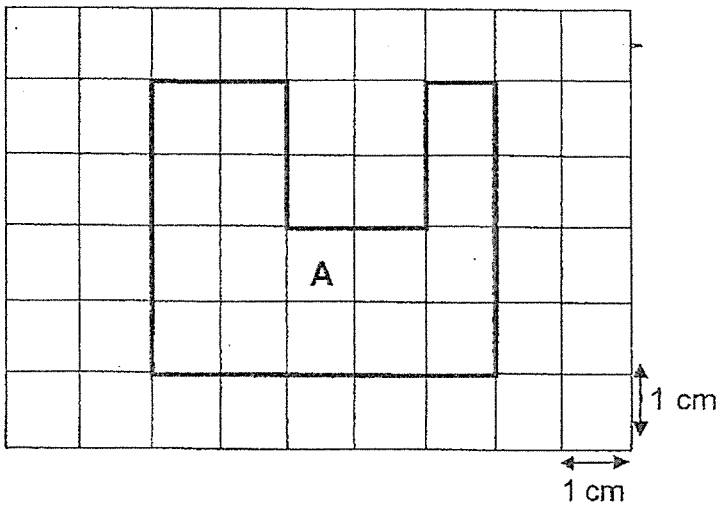
Answer: _____

21. Arrange the fractions in order. Begin with the greatest.

$\frac{3}{8}$, $\frac{1}{4}$, $\frac{7}{11}$, $\frac{3}{7}$

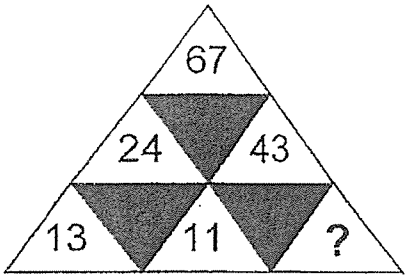
Answer: _____ , _____ , _____ , _____
greatest

22. Find the perimeter of Figure A.



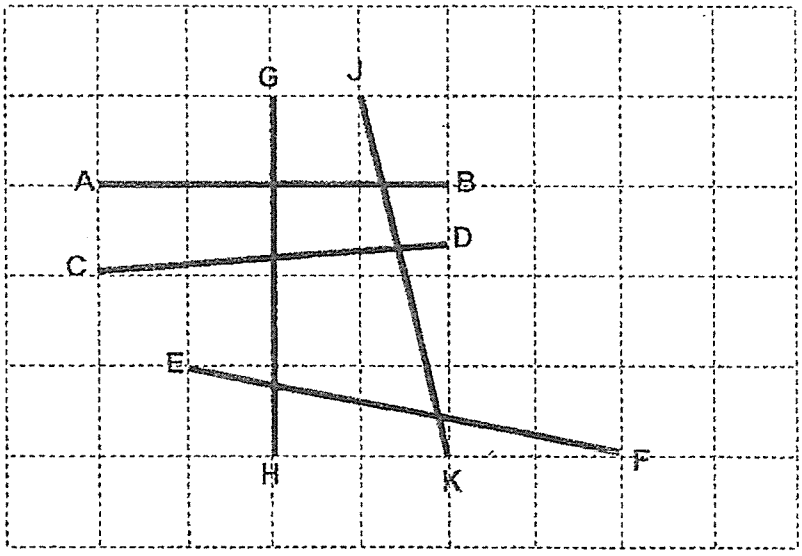
Answer: _____ cm

23. What is the missing number in the following pattern?



Answer: _____

24. Name the pair of perpendicular lines in the figure below.



Answer: ____ ⊥ ____

25. Aaron had 240 cards.
He shared the cards equally with 3 of his friends.
How many cards did each of them get?

Answer: _____

26. A fruit seller had 3850 oranges.
He threw away 86 rotten oranges and sold 2368 oranges.
How many oranges had he left?

Answer: _____

27. What are the missing digits?

$$\begin{array}{r} 8\,\boxed{A}\,3\,9 \\ -\ 5\,1\,4\,2 \\ \hline 3\,3\,9\,\boxed{B} \\ \hline \end{array}$$

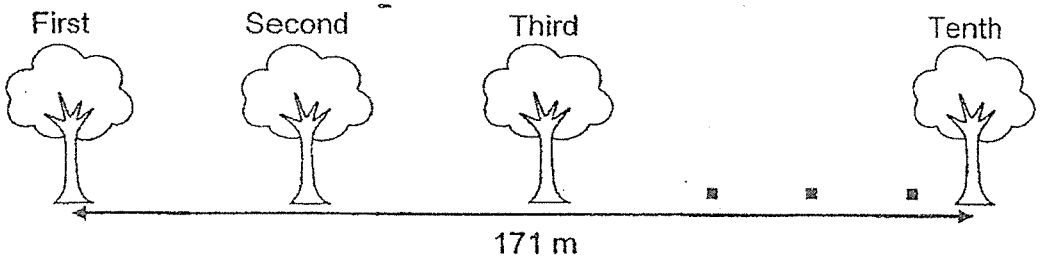
Answer: A = _____

B = _____

28. Mrs Lee bought some pencils.
She gave 105 pencils to her students and packed the remaining pencils into 15 packets. There were 5 pencils in each packet.
How many pencils did Mrs Lee have at first?

Answer: _____

29. There are 10 trees planted along a park.
The distance between the trees is equal.
The distance between the first and the tenth tree is 171 m.
What is the distance between the first and third tree planted along the park?



Answer: _____ m

30. David holds up a card which reads **5167**.

He describes this 4-digit number in two sentences shown below.

Write **'T'** for true or **'F'** for false in the boxes.

a	The 4-digit number is an even number.	
b	The value of the digit in the thousands place is 1000.	

31. Mandy bought 3 times as many sweets as Alex.

She bought 80 more sweets than Alex.

How many sweets did they buy altogether?

Answer: _____

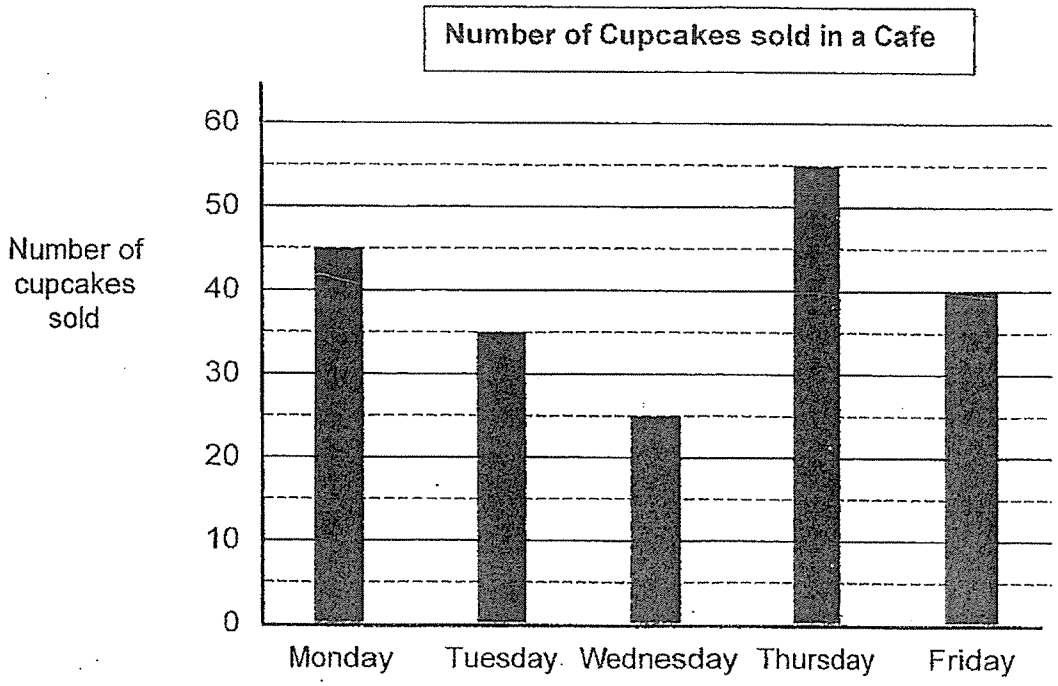
32. A baker has 294 donuts.

He packed 7 donuts in one box.

How many boxes of donuts are there?

Answer: _____

33. The bar graph showed the number of cupcakes that was sold each day in a cafe. Study the graph below and answer Questions 33 and 34.



(a) On which day was the least number of cupcakes sold?

(b) How many cupcakes were sold on Monday and Thursday altogether?

Answer: (a) _____

(b) _____

34. Each cupcake was sold for $3.
How much did the cafe collect from all the cupcakes that were sold on Tuesday and Friday?

Answer: $ _____

SECTION C - Problem Sums (22 Marks)

Questions 35 to 36 carry 3 marks each. Questions 37 to 40 carry 4 marks each.
Show your working and mathematical statements clearly in the space below each question.
All figures are not drawn to scale. Write your answer in the answer space provided.
Express your answers in the units stated and in its simplest form whenever possible.

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35. There were some marbles in a box.

$\frac{1}{3}$ of the marbles were green and $\frac{5}{12}$ of the marbles were red.

The rest of the marbles were blue.

What fraction of the marbles were blue?

Give your answers in its simplest form.

Answer: _____ [3]

36. The table below shows the programmes at the Science Centre.

Programme	Duration
The Human Body	20 min
Forensic Investigative Science	1 h 45 min
Stargazing	35 min

(a) John attended the Stargazing programme at 11.45 a.m.
What time did he finish the programme?

Answer: (a) _____ [1]

(b) Winnie attended The Human Body programme at 10 a.m.
She rested for 30 minutes and then continued with the Forensic Investigative Science programme.
What time did she complete the Forensic Investigative Science programme?

Answer: (b) _____ [2]

37. A table and 4 similar chairs cost $179.60.
The table and 1 such chair cost $106.40.

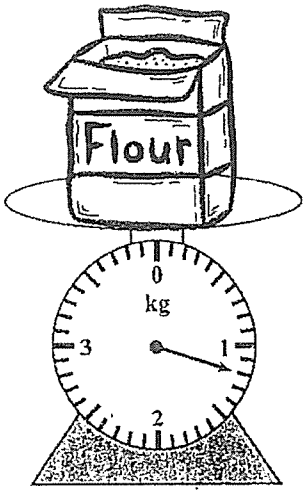
(a) What was the cost of 3 such chairs?

Answer: (a) _____ [2]

(b) The table cost $57.60 more than the chair.
What is the cost of the table?

Answer: (b) _____ [2]

38. A weighing scale is used to measure the mass of a bag of flour as shown below. A baker used some flour from the bag of flour and had 378 g left.



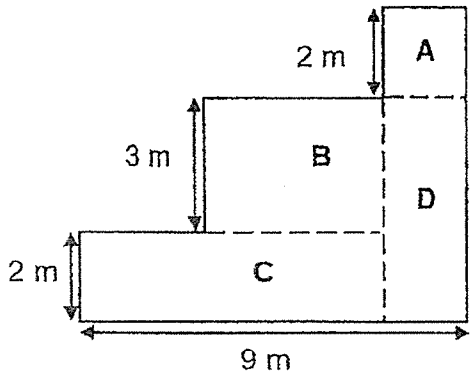
(a) How much flour did the baker use?

Answer: (a) _____ [2]

(b) The baker packed the remaining flour into 3 equal bags.
What is the mass of each bag of flour?

Answer: (b) _____ [2]

39. The figure below is made up of Square A and Rectangles B, C and D.



(a) What is the perimeter of the figure?

Answer: (a) _____ [2]

(b) Find the difference between the area of Square A and Rectangle D.

Answer: (b) _____ [2]

40. A total of 1500 people attended a concert.
There were 992 adults.
The rest were children.

(a) How many children attended the concert?

Answer: (a) _____ [2]

(b) There were same number of men and women attended the concert.
During the concert, some women left. In the end, there were 4 times as many men as women who stayed on till the end of the concert.
How many women left the concert?

Answer: (b) _____ [2]

END OF PAPER

YEAR : 2023
LEVEL : PRIMARY 3
SCHOOL : ANGLO-CHINESE SCHOOL (PRIMARY)
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

Q1	3	Q2	3	Q3	3	Q4	3	Q5	2
Q6	4	Q7	3	Q8	4	Q9	1	Q10	3

Q11	9712	Q12	5403
Q13	3706	Q14	471 + 360 = 831 471 and 360
Q15	9 x 8 = 72 72 + 18 = 90	Q16	4800
Q17	00 01	Q18	12 ÷ 2 = 6 7 x 6 = 42
Q19	927 ÷ 3 = 309	Q20	4010 – 419 = 3591
Q21	$\frac{7}{11}, \frac{3}{7}, \frac{3}{8}, \frac{1}{4}$	Q22	22cm
Q23	24 – 13 = 11 43 – 11 = 32	Q24	GH ⊥ AB
Q25	240 ÷ 4 = 60	Q26	2368 + 86 = 2454 3850 – 2454 = 1396
Q27	a = 5 b = 7	Q28	15 x 5 = 75 75 + 105 = 1
Q29	19 x 2 = 38m	Q30	a. F b. F
Q31	80 ÷ 2 = 40 40 x 4 = 160	Q32	299 ÷ 7 = 42
Q33	45 + 55 = 100 a) Wednesday b) 100	Q34	35 + 40 = 75 75 x 3 = $225
Q35	$\frac{1}{3} = \frac{4}{12}$ $\frac{4}{12} + \frac{5}{12} = \frac{9}{12}$ $\frac{12}{12} - \frac{9}{12} = \frac{3}{12}$ $\frac{3}{12} = \frac{1}{4}$	Q36	a) 12:20 p.m. b) 12:35 p.m.
Q37	a) 179.60 – 106.40 = $73.20 b) 73.20 ÷ 3 = 24.40 24.40 + 57.60 = $82.00	Q38	a) 1200g – 378g = 822g b) 378 ÷ 3 = 126g
Q39	a) 7 + 9 + 7 + 9 = 32cm b)2 x 2 = 4 5 x 2 = 10 10 – 4 = 6m^2	Q40	a) 1500 – 992 = 508 b) 992 ÷ 8 = 124 124 x 3 = 372

END