ST. JOSEPH'S INSTITUTION JUNIOR
END-OF-YEAR EXAMINATION
2023
PRIMARY THREE

MATHEMATICS

Name : _____ ( ) Date : 27 October 2023

Class : Primary 3 _____

Parent's Signature :

39 Questions
80 Marks

Instructions to candidates

Do not open this booklet until you are told to do so.

Read all instructions carefully.

You have 1 hour 45 minutes to answer all the questions.

SECTION	MARKS	
	POSSIBLE	ACTUAL
A	30	
B	30	
C	20	
TOTAL	80	

Section A (30 marks)
Questions 1 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) and shade your answer on the Optical Answer Sheet.

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1. Which one of the following numbers has the digit 7 in the hundreds place?

   (1) 2857
   (2) 4719
   (3) 5073
   (4) 7205

2. Find the sum of 35 tens and 78 hundreds.

   (1) 113
   (2) 1130
   (3) 7835
   (4) 8150

3. Find the sum of the digits represented by A and B below.

$$\begin{array}{r} 4\ 0\ 5\ 2 \\ -\ 2\ 6\ 1\ A \\ \hline 1\ 4\ B\ 6 \end{array}$$

   (1) 10
   (2) 9
   (3) 6
   (4) 4

4. Find the product of 139 and 7.

(1) 132
(2) 146
(3) 773
(4) 973

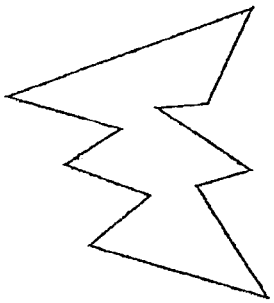
5. There were 16 boys and 26 girls in a class. Each pupil was given 8 erasers. How many erasers were given out altogether?

(1) 128
(2) 208
(3) 326
(4) 336

6. Mrs Wong had 148 pencils. She packed them equally into 6 boxes. How many pencils were left unpacked?

(1) 1
(2) 2
(3) 3
(4) 4

7. How many acute angles are there in the figure below?



(1) 7
(2) 6
(3) 5
(4) 4

8. Janet had 3 twenty-cent coins and 5 fifty-cent coins. She donated some of the coins. How much money could she **possibly** have donated?

(1) $0.80
(2) $1.80
(3) $2.70
(4) $3.00

9. A bottle contains 1 ℓ 80 ml of water. If the capacity of the bottle is 2 ℓ, how much more water is needed to fill the bottle?

(1) 20 ml
(2) 200 ml
(3) 920 ml
(4) 1920 ml

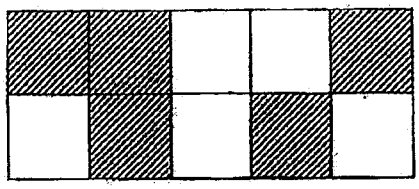
10. Which one of the following fractions is the smallest?

(1) $\frac{3}{10}$
(2) $\frac{1}{2}$
(3) $\frac{2}{3}$
(4) $\frac{2}{5}$

11. A movie started at 18 30. It lasted 115 minutes. What time did the movie end?

(1) 08 25
(2) 19 30
(3) 20 00
(4) 20 25

12. The figure below is made up of identical squares. How many more squares must be shaded so that $\frac{4}{5}$ of the figure is shaded?

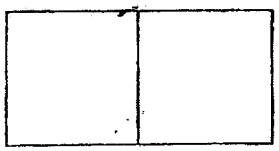


(1) 8
(2) 5
(3) 3
(4) 4

13. James had 3 times as many erasers as Max at first. After James had given 18 erasers to Max, Max had 44 erasers. How many erasers did James have at first?

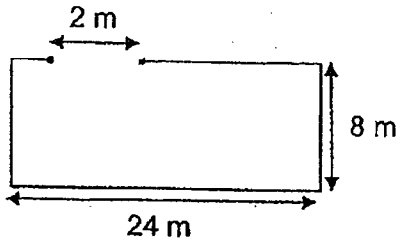
(1) 26
(2) 62
(3) 78
(4) 104

14. The figure below is made up of two identical squares. What is the total area of the figure?



(1) 42 cm^2
(2) 49 cm^2
(3) 56 cm^2
(4) 98 cm^2

15. Mr Tan wants to use the rectangular plot of land as a garden. He wants to build a fence around his garden leaving a 2 m gap for a metal swing gate. The cost of the fencing is $9 per metre. How much must he pay to fence his garden?



(1) $216

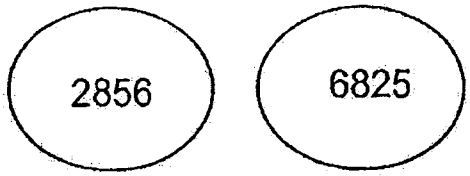
(2) $288

(3) $558

(4) $576

Section B (6 x 1 , 12 x 2 = 30 marks)
Questions **16** to **21** carry 1 mark each. Questions **22** to **33** carry 2 marks each.
Write your answers in the spaces provided.
For questions that require units, give your answers in the units stated.

16. Which digit in the two numbers given below has the same value?



Ans : _____

17. Find the difference between 6483 and 259.

Ans : _____

18. 1432 more than 7768 is _____.

Ans : _____

3

19. Arrange the following fractions in order. Begin with the greatest.

$$\frac{1}{3} \quad , \quad \frac{5}{6} \quad , \quad \frac{5}{12}$$

Ans : _____ , _____ , _____
(Greatest)

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20. Gary went jogging from 6:20 a.m. to 7:15 a.m. How long did he jog?

Ans : _____ min

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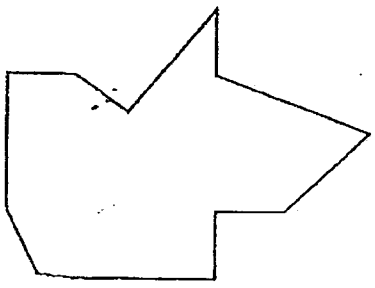
21. Mark the right angles **inside** the figure given below.



3

22. Jamie and Angel had a total of 135 hairclips. If Angel were to give Jamie 16 hairclips, Jamie would have 4 times as many hairclips as Angel. How many hairclips did Angel have?

Ans : _____

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23. Mrs Tan is 5 times as old as her son, Bryan, who is 9 years old now. How old will Mrs Tan be in 10 years' time?

Ans : _____

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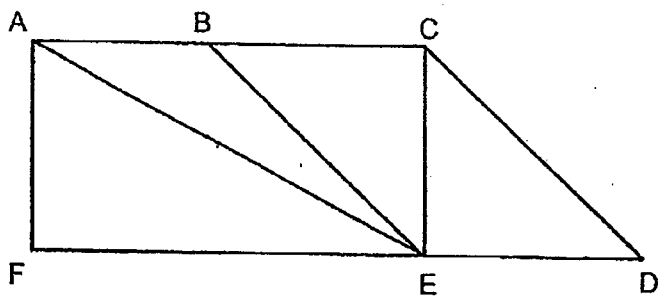
24. Keith had some sweets. He gave 24 of his sweets to his brother and bought another 12 sweets. In the end, Keith had 88 sweets altogether. How many sweets did he have at first?

Ans : _____

6

25. One of the lines in the figure below is parallel to CD. Name the line.



Ans : _____

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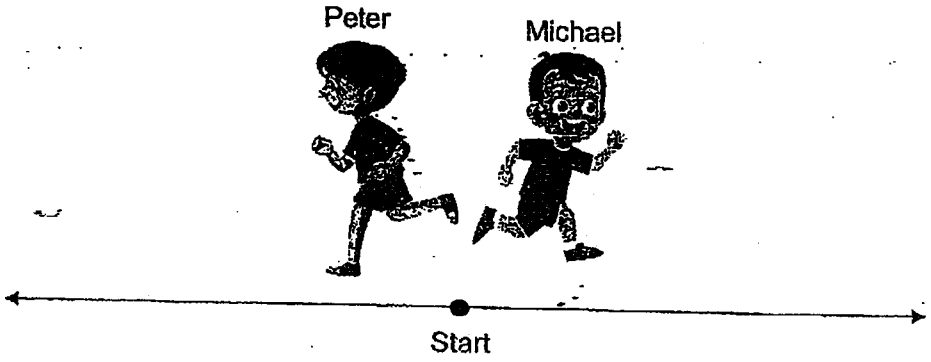
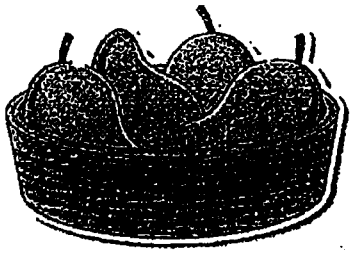
26. Peter and Michael started jogging from the same point but in opposite directions. When they stopped jogging at the same time, Peter had jogged 4 times the distance Michael had jogged. Michael jogged 546 m less than Peter. How far apart were they when they stopped jogging?



Ans : _____ m

4

27. A mango cost $5. A basket of 4 mangoes cost $18. Alicia bought 10 mangoes altogether. What was the least amount of money that she paid for the mangoes?



4 mangoes at $18

Ans : $ _____

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28. Ethan has 40 more marbles than Dylan. How many marbles must Ethan give to Dylan so that he will have 8 more marbles than Dylan?

Ans : _____

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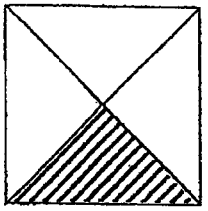
29. Simon had 50 more stickers than Mark. After Simon had given 88 stickers to Mark, he was left with 120 stickers. How many stickers did Mark have at first?

Ans : _____

6

30 The square is cut into 4 equal parts. What is the area of the shaded part?



Ans : _____ cm^2

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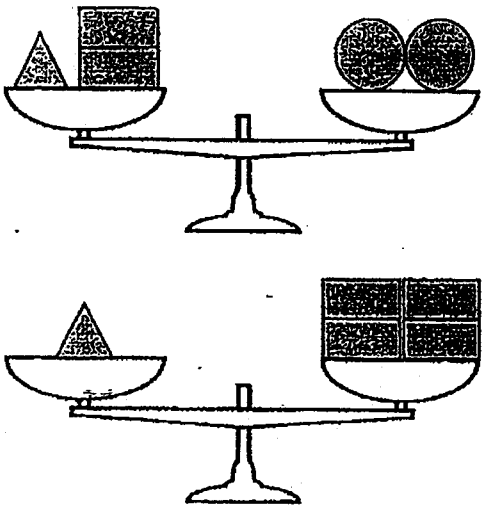
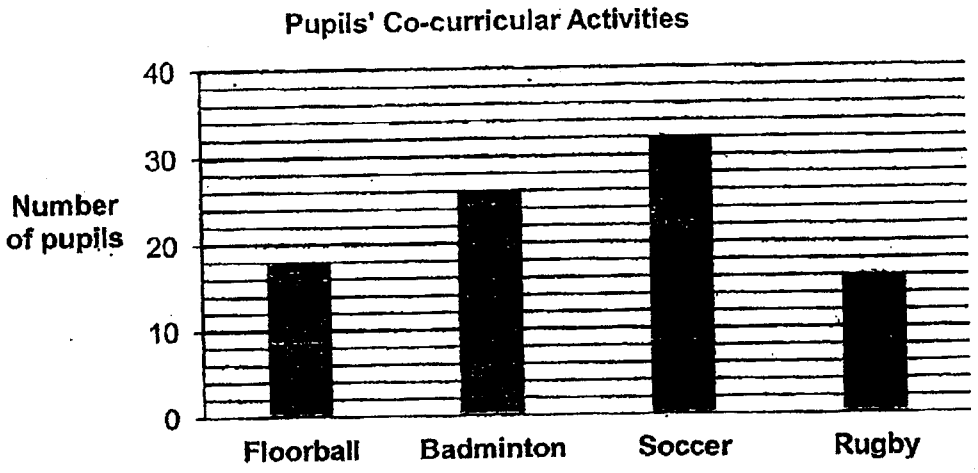
31. Each has a mass of 450 g. What is the mass of each ?
Express your answer in kg and g.



Ans : _____ kg _____ g

4

There were 100 Primary 3 pupils in a school. The pupils were allowed to choose only one co-curricular activity (CCA). The graph shows the CCAs that the pupils had chosen. Use the information to answer questions 32 and 33.



32. Some pupils were absent and did not get to choose a CCA. How many pupils did not choose a CCA?

Ans : _____

33. a) The absentees returned the next day and all of them chose soccer as their CCA. What is the number of pupils who had chosen soccer in the end?

b) Some pupils switched from floorball to badminton. The number of pupils in badminton increased to 30. What would be the number of pupils in floorball in the end?

Ans : a) _____

b) _____

4

Section C (20 marks)
Questions 34 to 37 carry 3 marks each. Questions 38 to 39 carry 4 marks each.
Write your equations, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

34. A baker baked 286 cupcakes in the morning.
He then baked another 365 cupcakes in the afternoon.
The baker sold 483 cupcakes that day

(a) How many cupcakes did the baker bake in all?

(b) How many cupcakes were left at the end of the day?

Working

Ans: (a) _____ [1]

(b) _____ [2]

3

35. A tank, containing 1850 ml of water at first, has a capacity of 4 ℓ.
After some water was poured into the tank,
another 860 ml of water is needed to fill it up completely.
How much water was poured into the tank?
Give your answer in litres and millilitres.

Working

Ans: _____ [3]

3

36. Ethan spent $\frac{1}{3}$ of his money on food.

He spent $\frac{1}{6}$ of it on magazines and $\frac{1}{4}$ of it on shoes.

What fraction of his money was left?

Express your answer in its simplest form.

Working

Ans: _____ [3]

3

37. Michelle worked for 6 days in a week.
She worked from 09 00 to 18 00 every day.

(a) How many hours did she work every day?

(b) How many hours did she work in 4 weeks?

Working

Ans: (a) _____ [1]

(b) _____ [2]

3

38. Shop A sold 487 more marbles than Shop B.
Shop C sold 243 more marbles than Shop B.
The three shops sold a total of 1000 marbles.

(a) How many marbles did Shop A sell?

(b) How many more marbles did Shop A sell than Shop C?

Working

Ans: (a) _____ [2]

(b) _____ [2]

4

39. Thaddeus, Ivan and Ryan had a total of 381 coins.
Ivan had twice as many coins as Ryan and
Thaddeus had 56 more coins than Ivan.

(a) How many coins did Thaddeus have?

(b) If Ryan's mother gave Ryan another 100 coins, how many coins would Ryan have now?

Working

Ans: (a) _____ [3]

(b) _____ [1]

End of paper

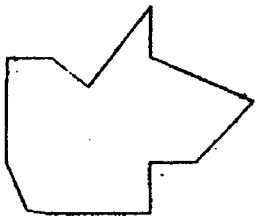
4

YEAR : 2023
LEVEL : PRIMARY 3
SCHOOL : ST. JOSEPH'S INSTITUTION JUNIOR
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

(BOOKLET A)

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

(BOOKLET B)

Q16	8	Q17	6483 – 259 = 6224
Q18	7768 + 1432 = 9200	Q19	$\frac{5}{6}, \frac{5}{12}, \frac{1}{3}$
Q20	55 min	Q21	
Q22	5u → 135 1u → 135 ÷ 5 = 27 27 + 16 = 43	Q23	1u → 9 5u → 9 x 5 = 45 45 + 10 = 55 years old
Q24	88 – 12 = 76 76 + 24 = 100	Q25	BE
Q26	Peter : 4u Michael : 1u 4 – 1 = 3 3u → 546 1u → 546 ÷ 3 = 182 5u → 182 x 5 = 910m	Q27	5 + 5 = 10 18 x 2 = 36 36 + 10 = 546
Q28	32 ÷ 2 = 16	Q29	120 + 88 = 208 208 – 50 = 158
Q30	8 x 8 = 64 64 ÷ 4 = 16cm^2	Q31	450 x 4 = 1800 1800 + 900 = 2700 2700 ÷ 2 = 1350 Ans: 1kg 350g
Q32	32 + 26 = 58 58 + 18 = 76 76 + 16 = 92 100 – 92 = 8	Q33	32 + 8 = 40 30 – 26 = 4 18 – 4 = 14 a) 40 b) 14

Q34	365 + 286 = 651 651 – 483 = 168 a) 651 b) 168	Q35	4000 – 860 = 3140 3140 – 1850 = 1290 Ans: 1L 290ml
Q36	$\frac{1}{3} = \frac{4}{12}$ $\frac{1}{6} = \frac{2}{12}$ $\frac{1}{4} = \frac{3}{12}$ $\frac{12}{12} - \frac{9}{12} = \frac{3}{12}$ $= \frac{1}{4}$	Q37	0900 to 1800 = 9h 6 x 9 = 54 54 x 4 = 216 a) 9h b) 216 hours
Q38	1000 – 487 = 513 513 – 243 = 270 3u → 270 1u → 270 ÷ 3 = 90 90 + 487 = 577 90 + 243 = 333 577 – 333 = 244 a) 577 b) 244	Q39	Thaddeus : 2u + 56 Ivan : 2u Ryan : 1u Total = 381 5u → 381 – 56 = 325 1u → 325 ÷ 5 = 65 Thaddeus : (65 x 2) + 56 = 186 100 + 65 = 165 a) 186 b) 165