

The University of the West Indies, Mona
presents
The 2025/2026 Junior Mathematical
Olympiad

Qualifying Round Examination (Grade 4)

NAME_____

GRADE_____

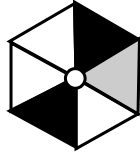
SCHOOL_____

STUDENT CONTACT NUMBER_____

- EACH entry MUST be accompanied by a nominal entry fee of **J\$1000**
- All entries must reach the Mathematics Department, U.W.I by
Friday December 19, 2025
- You may deliver by (a) Hand (b) Courier (c) Local Mail
- The Courier address is
**Mathematics Department, UWI
Mona
Kingston 7**
- The Mailing address is
**Junior Mathematical Olympiad
P.O. Box 94
Mona Post Office
Kingston 7**

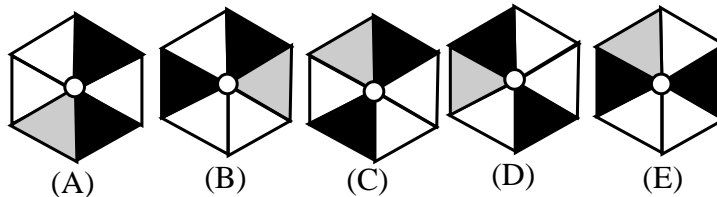
For each question, determine the letter corresponding to the correct or best response; along with the question number, indicate this letter by circling or shading it

1. Meg is playing with her toy that she spins around



Meg's Toy

Which of the following could be Meg's toy?



2. In a race with six children, Ali finished in third place. Ben finished sixth, just behind Eli. Fay finished between Ali and Eli. Den overtook Che right before the finish line. Who won the race?
 (A) Ali (B) Che (C) Den (D) Eli (E) Fay
3. Kimberly rolls three dice and all three dice show different numbers that totalled 8. What number of dots could Kimberly NOT have gotten on any of the dice?
 (A) 2 (B) 3 (C) 4 (D) 5 (E) 6
4. Bianca writes seven numbers on a white board. She adds them up to get 2025. One of the numbers written is 205. What is the new sum if she was to replace 205 with 502?
 (A) 1728 (B) 1523 (C) 1825 (D) 2527 (E) 2322
5. What is the maximum number of non-overlapping 5-minute periods that are in 5 days?
 (A) 12 (B) 144 (C) 288 (D) 1440 (E) 2880

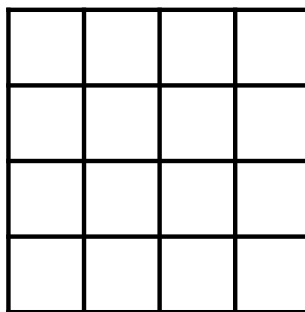
6. In a basketball game, Lila scored 14 points fewer than Bill, who scored 39 points. Carla scored three-fifth as many points as Lila. How many points did Carla score?
- (A) 10 (B) 15 (C) 20 (D) 25 (E) 30
7. Each day in a sequence of days, Kit-Kat catches mice. On the first 3 days she catches, 1, 3 and 5 mice, catching 2 more mice than she catches the previous day. If this trend continues, on which day will Kit-Kat catch a total of 37 mice?
- (A) Day 5 (B) Day 6 (C) Day 7 (D) Day 8 (E) Day 9
8. Each of the digits 7, 1, 3, 6, 8 and 2 is placed into one of the squares below to make an expression containing three 2-digit numbers.

$$\square\square + \square\square - \square\square$$

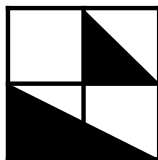
When the first two 2-digit numbers are added and the third is subtracted, the greatest possible result is

- (A) 139 (B) 147 (C) 145 (D) 138 (E) 149
9. A fly has six legs and a spider has eight legs. Together, 2 flies and 3 spiders have as many legs as c cats and 10 birds. What is the value of c ?
- (A) 2 (B) 3 (C) 4 (D) 5 (E) 6
10. A bouquet contains four flowers consisting of 1 red, 1 yellow, 1 blue and 1 white flower. Bumble the bee, visits every flower in the bouquet only once. She starts from the red flower but she cannot fly directly from the blue flower to the yellow flower. In how many ways can Bumble visit all four flowers exactly once?
- (A) 4 (B) 5 (C) 6 (D) 12 (E) 24
11. How many times does the digit “7” appear in writing down the numbers from 1 to 80?
- (A) 8 (B) 9 (C) 16 (D) 17 (E) 18

12. In a 60-metre hurdles race, there are 5 hurdles. The first hurdle is after 12 metres and the distance between any two consecutive hurdles is 8 metres. How far is the last hurdle from the finish line?
- (A) 16 m (B) 14 m (C) 12 m (D) 10 m (E) 8 m
13. How many squares are there in the 4×4 grid below?



- (A) 16 (B) 25 (C) 29 (D) 30 (E) 32
14. Today is a Saturday. Suelyn's birthday is 94 days from today. On what day of the week will Suelyn's birthday fall?
- (A) Tuesday (B) Wednesday (C) Thursday (D) Friday
(E) Saturday
15. A three-digit number takes the form abc consisting of three different digits. The product of the three digits is 24 and the sum of the three digits is 11. What is the number abc if the hundreds digit is smallest and the tens digit is the largest?
- (A) 138 (B) 234 (C) 146 (D) 164 (E) 183
16. What fraction of the 2×2 square below is shaded in black?



- (A) $1/2$ (B) $1/3$ (C) $3/8$ (D) $3/5$ (E) $3/4$

17. Sned the snail fell into a hole that is 10 metres deep. During daytime it climbs 3 metres up but at nights (while sleeping) falls 2 metres down. After how many days will Sned be able to climb out of the hole?
(A) 7 (B) 8 (C) 5 (D) 9 (E) 6
18. By definition, 1 kilometer (km) is 1000 metres (m). We may conclude that 4751 metres is between
(A) 4 km and 5 km (B) 5 km and 7 km (C) 47 km and 50 km
(D) 40 km and 70 km (E) 475 km and 500 km
19. Seven children stand in a circle. Nowhere are two boys found standing next to each other. Nowhere are three girls found standing next to each other. The number of girls must be
(A) 3 (B) 3 or 4 (C) 5 (D) 4 or 5 (E) 4
20. Harry's dogs have 18 more legs than mouths. How many dogs does Harry have?
(A) 4 (B) 5 (C) 6 (D) 8 (E) 9
21. Floyd is 5 years old and his brother Zach is 6 years older. In 7 years from now, what will be the sum of their ages?
(A) 23 (B) 25 (C) 28 (D) 30 (E) 32
22. Myra, Ashman and Nora work in Form 5A. On each weekday from Monday to Friday, exactly two of them are working. Myra works three times per week and Ashman works four times per week. How many times per week does Nora work?
(A) 1 (B) 3 (C) 5 (D) 4 (E) 2
23. The digits 2, 0, 2, 5 are repeated to form the pattern 2, 0, 2, 5, 2, 0, 2, 5, 2, 0, ... If a total of 51 digits are written, how many times will the digit 2 appear?
(A) 13 (B) 24 (C) 25 (D) 26 (E) 27

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24. Latoya can walk 1.5 km in 20 minutes. Walking at this same rate, how far does Latoya walk in 4 hours?
(A) 18 km (B) 30 km (C) 22.5 km (D) 15 km (E) 4.5 km
25. Roger the rabbit loves cabbages and carrots. In one day Roger eats either 9 carrots or 2 cabbages or one cabbage and 4 carrots. In a seven-day week, Roger had eaten 30 carrots. How many cabbages had he eaten during this week?
(A) 6 (B) 7 (C) 8 (D) 9 (E) 10

Please write your name using **BOLD LETTERS** below

Name