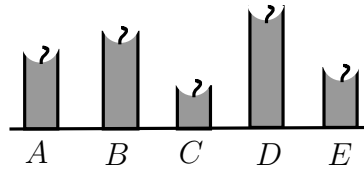


2025-2026 Junior Mathematical Olympiad

Round One Examination (Grade 4) - 1:00pm

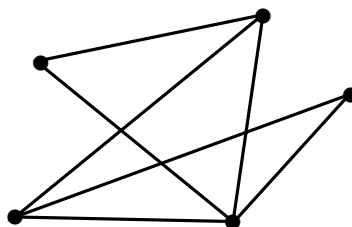
For each question, determine the letter corresponding to the correct or best response; along with the question number, indicate this letter by shading it on the answer sheet

1. Grandma had 5 identical candles lit at the same time and they burn at the same rate. The candles all stopped burning at different times. Based on the information in the diagram below showing the candles today, which candle stopped burning first?



- (A) A (B) B (C) C (D) D (E) E
2. Nathaniel has the numbers 2, 0, 2 and 6. He writes one number in each of the four boxes below.
- $$\square + \square - \square + \square$$
- Which order (left to right) makes his calculation result in the largest value?
- (A) 0, 2, 2, 6 (B) 0, 6, 2, 2 (C) 2, 6, 2, 0 (D) 6, 0, 2, 2 (E) 6, 2, 0, 2
3. On Sam's last birthday, his birthday cake had 7 candles placed on it: 1 small candle and 6 large candles. Each small candle represented 1 year and each large candle represented 10 years. How old, in years, is Sam?
- (A) 7 (B) 14 (C) 16 (D) 61 (E) 71
4. On a pig farm there are some humans and some pigs. There are 25 humans and 60 pigs on the farm. How many feet are on the farm?
- (A) 180 (B) 220 (C) 290 (D) 330 (E) 380
5. Simon had 36 Jamaican otaheite apples that he gave to his 4 daughters. Each daughter received the same number of apples. How many apples did each daughter receive?
- (A) 3 (B) 6 (C) 9 (D) 10 (E) 12

6. Today (March 05, 2026) is the birthday of five friends. They turn 7, 8, 9, 10 and 11 years old. Among the friends, Lea is two years older than James, but one year younger than Abby. Vinnie is the youngest. How old is the fifth of the friends, Sarah?
- (A) 11 years (B) 10 years (C) 9 years (D) 8 years (E) 7 years
7. Brianna rolls three ordinary six-sided dice. The total number of dots shown on the dice is 8. If each of the dice shows a different number, which of the following numbers was not shown on any of the dice?
- (A) 2 (B) 3 (C) 4 (D) 5 (E) 6
8. A map of Olympiad Village shows five locations. Each location is joined to every other location by a road (a straight line). Part of the map is shown. How many roads are missing?



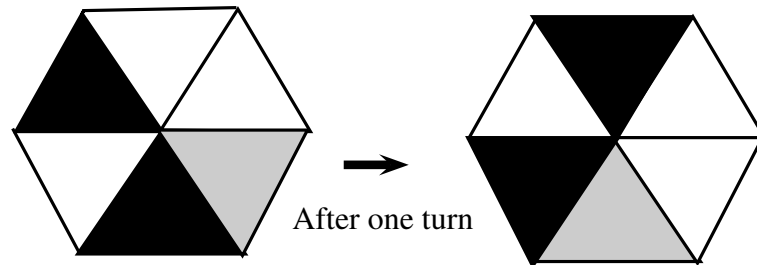
- (A) 6 (B) 5 (C) 4 (D) 3 (E) 2
9. In the following multiplication problem, a and b represent two separate digits.

$$\begin{array}{r} 27 \\ \times a \\ \hline 8b \end{array}$$

What is the value of $a + b$?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 9
10. Which single digit, when placed in the three boxes below, produce the correct result?
- $$\square \times \square + 10 \times \square = 75$$
- (A) 3 (B) 4 (C) 5 (D) 6 (E) 8
11. What is the sum of the smallest two-digit integer and the largest three-digit integer?
- (A) 109 (B) 199 (C) 909 (D) 1009 (E) 1099

12. A commuter train was scheduled to leave Station Gamma at 17:28 and to arrive at Station Epsilon at 18:41. The train started the journey 4 minutes early and arrived 3 minutes later than scheduled. How much time did it take the train to travel from Gamma to Epsilon?
- (A) 43 mins (B) 1 hr and 20 mins (C) 2 hrs and 43 mins
(D) 1 hr and 13 mins (E) 57 mins
13. In Jamaica, each year, we celebrate Fathers' Day on the third Sunday of June. What is the earliest possible date for Fathers' Day?
- (A) 14th June (B) 15th June (C) 16th June (D) 18th June (E) 21st June
14. What is the value of $2^2 + 0^2 + 2^2 + 6^2$?
- (A) 10 (B) 20 (C) 26 (D) 40 (E) 44
15. What is the value of $\frac{3333 + 1111}{1111 + 1111}$?
- (A) 2 (B) 4.5 (C) 2.2 (D) 4 (E) 1111
16. Zoe has a hexagonal piece of paper. She rotates it, as shown in the diagram. For each step, she makes the same turn clockwise.



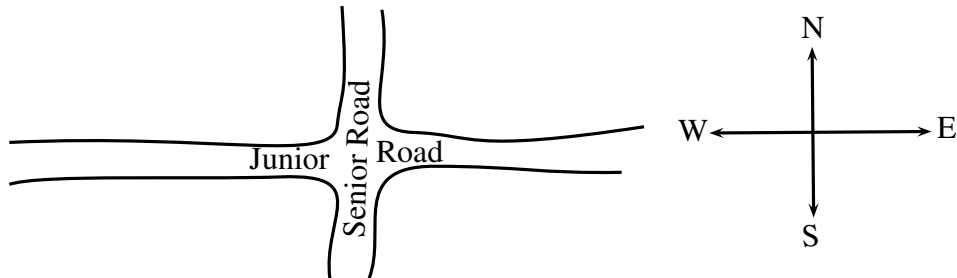
- After which of the following number of steps does the paper look the same as it did at the start?
- (A) 14 steps (B) 17 steps (C) 10 steps (D) 15 steps (E) 12 steps
17. Julie finished a 160 kilometres-marathon race in the time 59 hours, 58 minutes and 21 seconds. Competitors finishing the race before 60 hours were awarded a medal. By how many seconds did Julie beat the 60 hours medalling mark?
- (A) 99 (B) 109 (C) 119 (D) 129 (E) 139

18. The digits 0, 1, 2, 3, 4, 5 are used to make three 2-digit numbers with no repeat in digit. What is the smallest possible sum of these three 2-digit numbers?
 (A) 61 (B) 69 (C) 71 (D) 79 (E) 81
19. The numbers 2, 0, 2, 6 are considered to be a list of 4 numbers. A longer list is formed by repeating 2, 0, 2, 6 generating the pattern

$$2, 0, 2, 6, 2, 0, 2, 6, 2, 0, 2, 6, \dots$$

A new list consists of the first 33 numbers, in the same order. How many times does the number 2 appear in this new list?

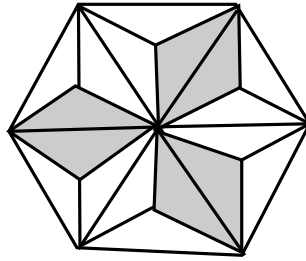
- (A) 18 (B) 17 (C) 16 (D) 15 (E) 14
20. Twelve philanthropists each donate 5 million dollars to a charity organization. How much money do the twelve philanthropists give in total?
 (A) \$5,000,000 (B) \$50,000,000 (C) \$55,000,000 (D) \$6,000,000
 (E) \$60,000,000
21. A doctor told Nyla to take one pill every 60 minutes. Nyla took her first pill at 7:15. At what time did she take her third pill?
 (A) 7:45 (B) 8:15 (C) 9:15 (D) 10:15 (E) 11:15
22. Senior Road and Junior Road intersect as shown



There are 7 houses north of Junior Road, 8 houses east of Senior Road and 5 houses south of Junior Road. How many houses are west of Senior Road?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

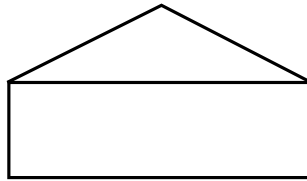
23. The regular hexagon below is divided into equally sized triangles.



What fraction of the hexagon is grey?

- (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{1}{4}$ (D) $\frac{1}{5}$ (E) $\frac{1}{6}$

24. The figure below consists of a triangle and a rectangle as shown. The triangle can be coloured in either yellow or red, while the rectangle can be coloured in either blue or green or pink.



In how many different ways can the figure be coloured?

- (A) 2 (B) 4 (C) 5 (D) 6 (E) 8
25. On a packet of rice it says that 1 cup of rice has to be cooked with $1\frac{1}{2}$ cups of water. Rey wants to cook $1\frac{1}{2}$ cups of rice. How many cups of water does Rey need?
- (A) $1\frac{1}{4}$ (B) $1\frac{3}{4}$ (C) $2\frac{1}{4}$ (D) $2\frac{1}{2}$ (E) $2\frac{3}{4}$