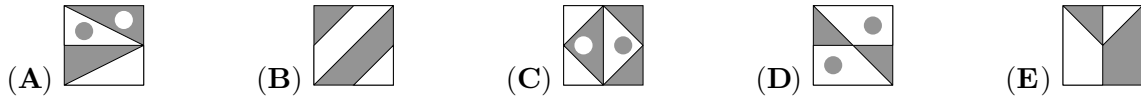


International Kangaroo Open 2026

You have 60 minutes to solve the problems. For every correct answer you get the corresponding number of points. For every incorrect answer you lose one quarter of the corresponding number of points. For every skipped problem you get 0 points. To avoid possible negative final score you get initial 24 points.

3 points problems

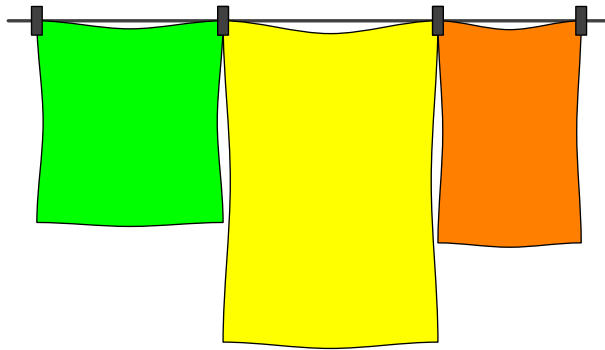
1. In four of the five pictures the white area is equal to the grey area. In which picture are the white area and the grey area different?



2. 13 children are playing hide and seek. One of them is the "seeker" and the others hide. After a while 9 children have been found. How many children are still hiding?

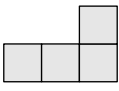
- (A) 3 (B) 4 (C) 5 (D) 9 (E) 22

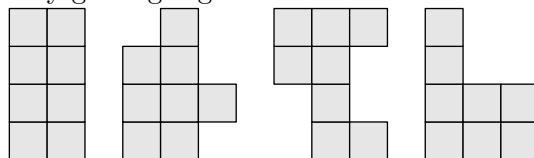
3. Father hangs the laundry outside on a clothesline. He wants to use as few pegs as possible. For 3 towels he needs 4 pegs, as shown.



How many pegs does he need for 9 towels?

- (A) 8 (B) 10 (C) 12 (D) 14 (E) 16

4. You have L-shaped tiles, each consisting of 4 squares as shown: . How many of the following shapes can you make by glueing together two of these tiles?

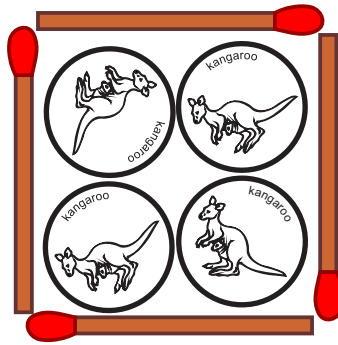


- (A) 0 (B) 1 (C) 2 (D) 3 (E) 4

5. Three balloons cost 12 cents more than one balloon. How much does one balloon cost?

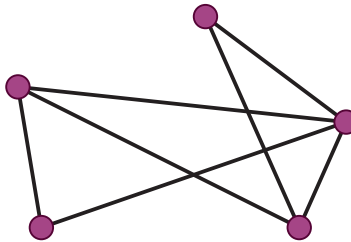
- (A) 4 (B) 6 (C) 8 (D) 10 (E) 12

6. Sally can put 4 coins in a square built with 4 matches (see picture).



At least how many matches will she need in order to build a square containing 16 coins that do not overlap?

- (A) 8 (B) 10 (C) 12 (D) 15 (E) 16
7. Among Nikolay's classmates there are twice as many girls as boys. Which of the following numbers can be equal to the number of all children in this class?
- (A) 30 (B) 20 (C) 24 (D) 25 (E) 29
8. There are five cities in Wonderland. Each pair of cities is connected by one road, either visible or invisible. On the map of Wonderland, there are only seven visible roads, as shown.



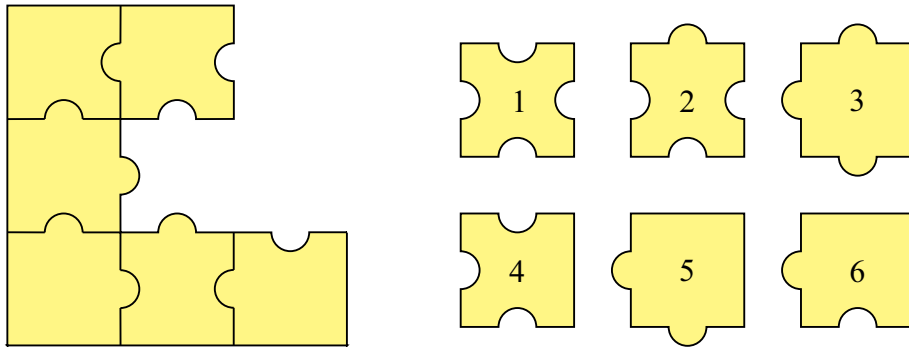
Alice has magical glasses: when she looks at the map through these glasses she only sees the roads that are otherwise invisible. How many invisible roads can she see?

- (A) 9 (B) 8 (C) 7 (D) 3 (E) 2

4 points problems

9. In the animal's school, 3 kittens, 4 ducklings, 2 goslings and several lambs are taking lessons. The teacher owl found out that all of her pupils have 44 legs altogether. How many lambs are among them?
- (A) 6 (B) 5 (C) 4 (D) 3 (E) 2
10. On the 19th of March 2026, the ducklings of my grandfather are exactly 8 weeks old. When did they hatch from their eggs?
- (A) on 19th of January (B) on 20th of January (C) on 21st of January
 (D) on 22nd of January (E) on 23th of January

11. Which three of the numbered puzzle pieces should you add to the picture to complete the square?

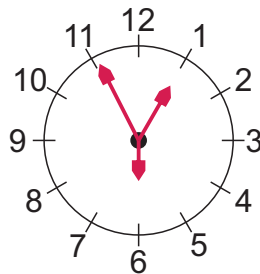


- (A) 1, 3, 4 (B) 1, 3, 6 (C) 2, 3, 5 (D) 2, 3, 6 (E) 2, 5, 6

12. Laura, Iggy, Val and Kate want to be in one photo together. Kate and Laura are best friends and they want to stand next to each other. Iggy wants to stand next to Laura because he likes her. In how many possible ways can they arrange for the photo?

- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

13. A special clock has 3 hands of different length (for hours, for minutes, and for seconds). We do not know which hand is which, but we know that the clock runs correctly. At 12:55:30 p.m. the hands were in position shown on the picture.



How will this clock look like at 8:11:00 p.m.?

- (A) (B) (C) (D) (E)

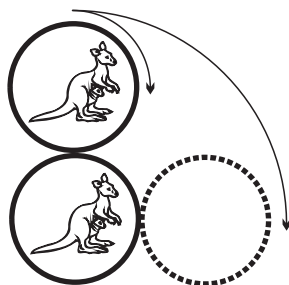
14. Gregor forms two numbers with the digits 1, 2, 3, 4, 5 and 6. Both numbers have three digits, each digit is used only once. He adds these two numbers. What is the greatest sum Gregor can get?

- (A) 975 (B) 999 (C) 1083 (D) 1173 (E) 1221

15. When it is 4 o'clock in the afternoon in London, it is 5 o'clock in the afternoon in Madrid and it is 8 o'clock in the morning on the same day in San Francisco. Ann went to bed in San Francisco at 9 o'clock yesterday evening. What was the time in Madrid at that moment?

- (A) 6 o'clock yesterday morning (B) 6 o'clock yesterday evening
 (C) 12 o'clock yesterday afternoon (D) 12 o'clock midnight
 (E) 6 o'clock this morning

16. The upper coin is rotated without slipping around the fixed lower coin to a position shown on the picture.



Which is the resulting relative position of kangaroos?

- (A) (B) (C)
 (D) (E) depends on the rotation speed

5 points problems

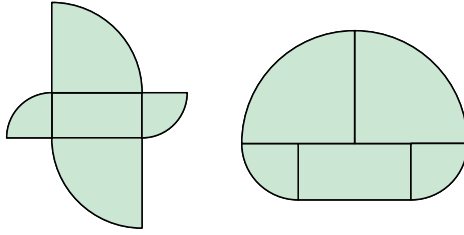
17. A rectangular paper sheet measures 192×84 mm. You cut the sheet along just one straight line to get two parts, one of which is a square. Then you do the same with the non-square part of the sheet, and so on. What is the length of the side of the smallest square you can get with this procedure?

- (A) 1 mm (B) 4 mm (C) 6 mm (D) 10 mm (E) 12 mm

18. To the number 6 we add 3. Then we multiply the result by 2 and then we add 1. Then the final result will be the same as the result of the computation

- (A) $(6 + 3 \cdot 2) + 1$ (B) $6 + 3 \cdot 2 + 1$ (C) $(6 + 3) \cdot (2 + 1)$
 (D) $(6 + 3) \cdot 2 + 1$ (E) $6 + 3 \cdot (2 + 1)$

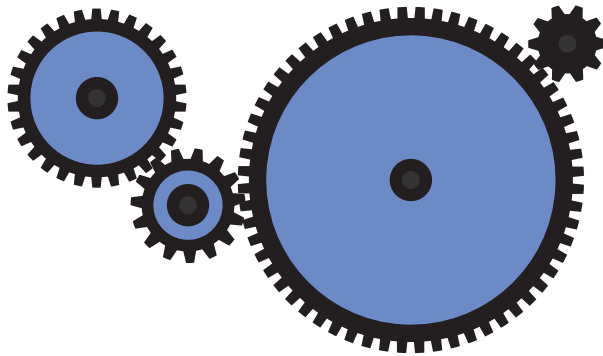
19. Look at the pictures. Both shapes are formed from the same five pieces.



The rectangle measures $5\text{ cm} \times 10\text{ cm}$, and the other parts are quarters of two different circles. The difference between the perimeter lengths of the two shapes is

- (A) 2.5 cm (B) 5 cm (C) 10 cm (D) 20 cm (E) 30 cm

20. There are 4 gearwheels on fixed axles next to each other, as shown.



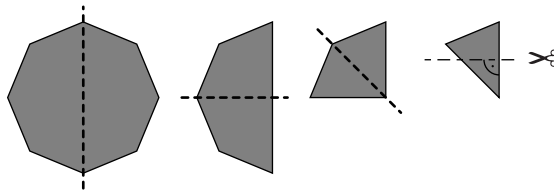
The first one has 30 gears, the second one 15, the third one 60 and the last one 10. How many revolutions does the last gearwheel make, when the first one turns through one revolution?

- (A) 3 (B) 4 (C) 6 (D) 8 (E) 9

21. There were twelve children at a birthday party. Each child was either 6, 7, 8, 9 or 10 years old, with at least one child of each age. Four of them were 6 years old. In the group the most common age was 8 years old. What was the average age of the twelve children?

- (A) 6 (B) 6.5 (C) 7 (D) 7.5 (E) 8

22. A regular octagon is folded in half exactly three times until a triangle is obtained, as shown.

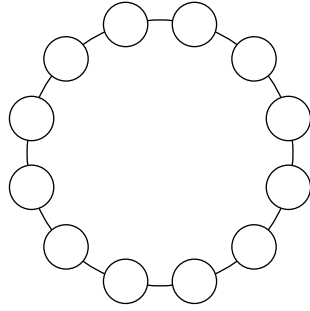


Then the apex is cut off at right angles, as shown in the picture. If the paper is unfolded what will it look like?

- (A) (B) (C) (D) (E)

Kangaroo Level

23. Kanga wants to arrange the twelve numbers from 1 to 12 in a circle such that any neighbouring numbers always differ by either 1 or 2.



Which of the following pairs of numbers have to be neighbours?

- (A) 5 and 6 (B) 10 and 9 (C) 6 and 7 (D) 8 and 10 (E) 4 and 3

24. Abid's house number has 3 digits. Removing the first digit of Abid's house number, you obtain the house number of Ben. Removing the first digit of Ben's house number, you get the house number of Chiara. Adding the house numbers of Abid, Ben and Chiara gives 912. What is the second digit of Abid's house number?

- (A) 3 (B) 4 (C) 5 (D) 6 (E) 0