



**MATEMATIKKSENTERET**

Nasjonalt senter for matematikk i opplæringen

**2025**

# PARKONKURRANSE

for  
elever på 4.–6. trinn

---

Problems in English



## Kenguru DUO



1. A string of beads is made with an alternating pattern of white and black beads. As shown below, three boxes cover part of the string. In total, there are 6 black beads under the boxes.



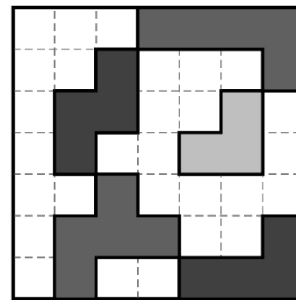
How many white beads are there under the boxes?

- (A) 4                      (B) 5                      (C) 6                      (D) 7                      (E) 8
2. Joana and her friends play soccer. At the beginning of each match, they always line up in the same order. When the numbers on their shirts are read from left to right as one big number, they form the largest number possible.

Who stands in the middle?



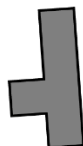
- (A) Joana                      (B) Candy                      (C) Elyana                      (D) Nadine                      (E) Paula
3. Some pieces are placed on the board.



Which of the following pieces do not fit on the empty white squares??



(A)



(B)



(C)



(D)



(E)



4. The tables below were filled according to a pattern. Some numbers have been erased.

3	4
2	1

5	6	7
	9	
3		1

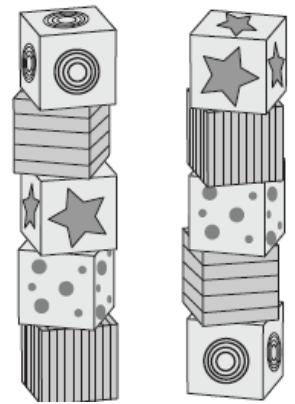
7			10
	15	16	11
	14	13	12
4			1

	★			
8	21			
		25	☀	
	19		17	
5				1

What is the sum of the two numbers in the cells marked with the star and the sun?

- (A) 23                      (B) 25                      (C) 33                      (D) 35                      (E) 43

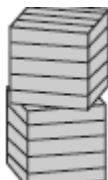
5. Chris has built two towers. He takes the top cube from the left tower and puts it on the table. Then he takes the top cube from the right tower and places it on top of the first cube. He follows this pattern until he has a new tower. In this tower, two cubes lying on top of each other, have the same pattern.



Which cubes?



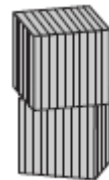
(A)



(B)



(C)



(D)



(E)

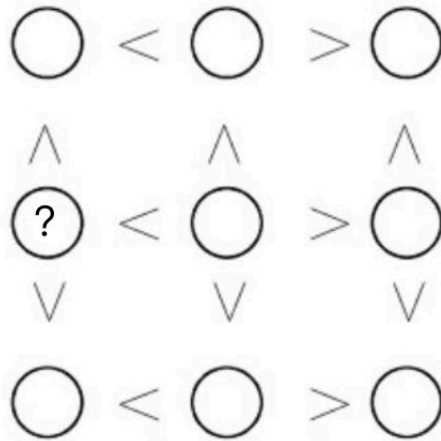
6. On the number line below, which number is the arrow pointing to?



- (A) 43                      (B) 53                      (C) 62                      (D) 64                      (E) 68



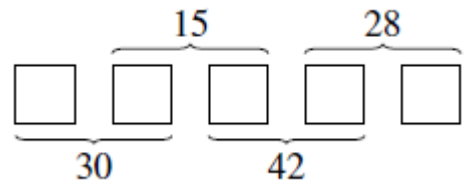
7. Fill in the circles below with 1, 2, 3, 4, 5, 6, 7, 8, and 9 so that all inequalities hold.



How many numbers can be filled in the circle with question mark?

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

8. Andrew wants to write positive integer into each of the five boxes so that the products of adjacent pairs of integers are as shown.



What is the sum of the integers that he will write?

- (A) 20                      (B) 24                      (C) 30                      (D) 36                      (E) 40

9. A bee, a mouse, a bug, and a cat decided to take a group photo. They stood in a line.

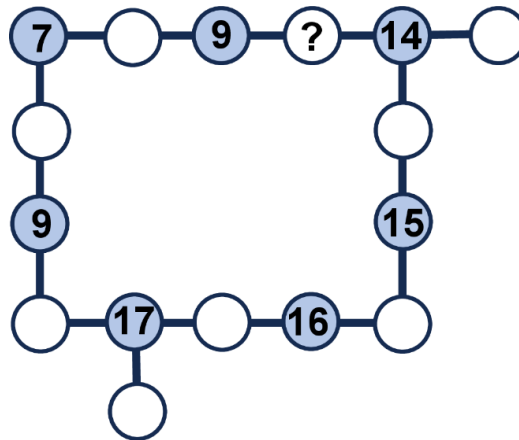


In how many different ways can they arrange themselves if the cat and mouse cannot stand next to each other?

- (A) 6                      (B) 8                      (C) 12                      (D) 16                      (E) 18



10. The digits 1 to 9 are to be placed in the white circles, one per circle. We wish that the numbers in the blue circles to be the sum of the numbers in their neighboring circles (the ones joined to them by a segment).

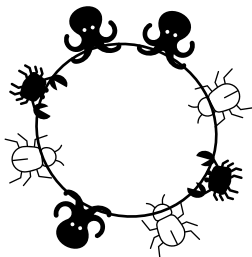


What number must be placed in the circle with the question mark?

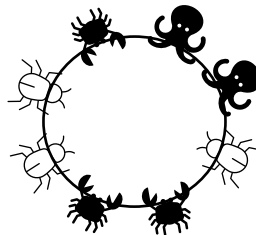
- (A) 3                      (B) 4                      (C) 5                      (D) 6                      (E) 7

11. In the figure to the right, remove three adjacent figures and reconnect the remaining figures in order. The three removed figures are an octopus, a crab and a beetle.

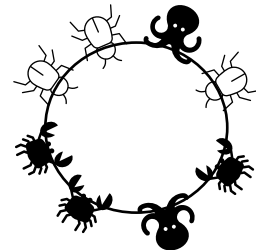
Which of the following options is a possible result?



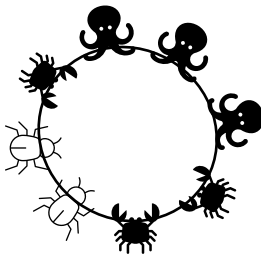
(A)



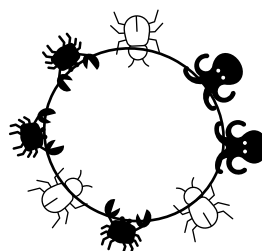
(B)



(C)



(D)



(E)



12. A digital watch shows 20:25.

Next time the clock shows the same numbers, how many minutes later is that?

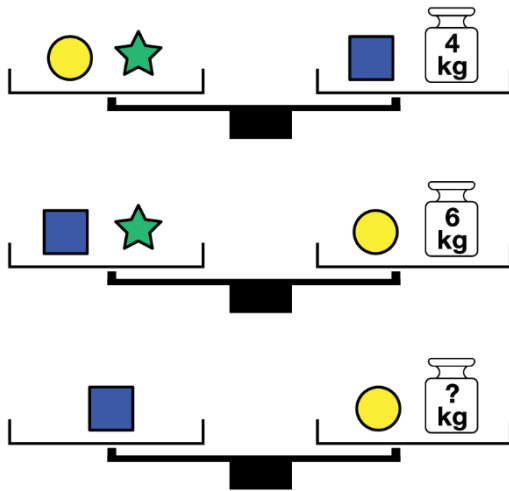
- (A) 17                      (B) 27                      (C) 37                      (D) 47                      (E) 105
- 

13. In a box there are 25 color pencils. There are red, blue, green, yellow and pink pencils. Of those pencils, 22 were not pink, 6 were blue and 14 were neither yellow nor red.

How many green pencils are there in the box?

- (A) 3                      (B) 4                      (C) 5                      (D) 6                      (E) 8
- 

14. All the scales in the picture are balanced:

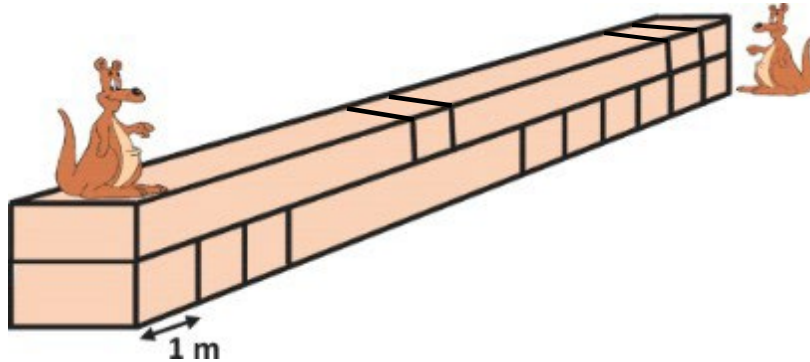


What is the weight of the weight with the question mark?

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



15. The diagram shows a photo of a wall.  
It is constructed using two types of slabs, short ones and long ones.  
The short slabs have a length of 1 meter.

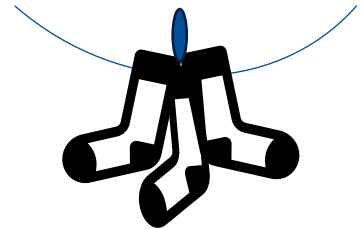


**How long is the wall?**

- (A) 9 m      (B) 12 m      (C) 14 m      (D) 15 m      (E) 16 m

16. First grandma grouped her socks into threes.  
After they had dried, she grouped her socks into pairs.  
The number of threes is 7 less than the number of pairs.

**How many socks does she have?**



- (A) less than 29 socks.  
(B) more than 29 socks but less than 37.  
(C) more than 37 socks, but less than 49.  
(D) more than 49 socks but less than 59.  
(E) more than 59 socks.



17. Ali has five  $4 \times 4$  tables. In each table, some of the cells are empty. He wants to select one of them and by writing the numbers 1, 2, 3, or 4 in the empty cells, convert it into a Sudoku table (i.e., no repeated number in any row or column).

Help Ali choose the appropriate table from the five tables below.

1	4		
4			2
		3	1

(A)

1			
3			
	4		2
	2		

(B)

		1	
2			3
	3		
		2	

(C)

3			4
	1		
		1	
	2		

(D)

1	2		4
	1		
		1	

(E)

18. George, David and Mary are friends. Neither two of them have the same age. On the question “Who is the oldest?”, they gave the following answers.

George: “I am not the oldest”.

David: “I am the oldest”.

Mary: “I’m not the youngest”.

It turns out that only one of these three answers is true.

Sort friends by ascending age.

- (A) David, George, Mary
- (B) George, David, Mary
- (C) Mary, David, George
- (D) David, Mary, George
- (E) Georg, Mary, David