KÄNGURU DER MATHEMATIK 2024
21. 3. 2024
Level: Felix, Grade 2

Name:	
School:	
Class:	

Time: 60 min.
15 starting points

each correct answer to questions	1. – 5.:	3 points
each correct answer to questions	6. – 10.:	4 points
each correct answer to questions	11. – 15.:	5 points
each question left unanswered:		0 points
each incorrect answer:		minus ¼ of the points for the question

Please write the letter (A, B, C, D, E) of the correct answer in the square under the question number (1 to 15). Write clearly and carefully!

OESTERREICHISCHE NATIONALBANK
EUROSYSTEM

1	2	3	4	5

6	7	8	9	10

11	12	13	14	15

pwc

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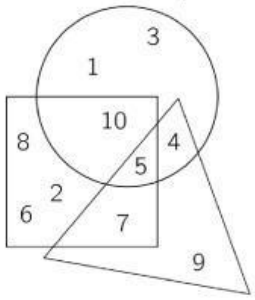
NXP

Känguru der Mathematik Austria – 21. 3. 2024 Level Felix (Schulstufe 2)	Name:

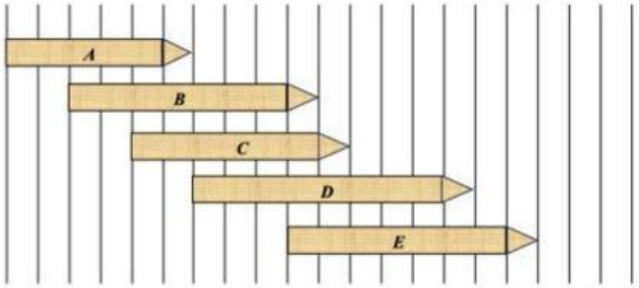
– 3 Point Examples –

1. Which number is in the triangle **and also** in the square **and also** in the circle?



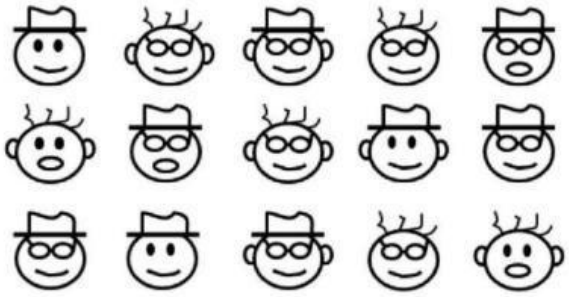
(A) 1 (B) 4 (C) 5 (D) 9 (E) 12

2. Which pencil is the longest?



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

3. There are 8 different faces in the picture.



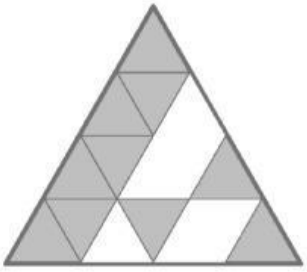
Which face only appears once?

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

4. Bruno builds a big triangle.

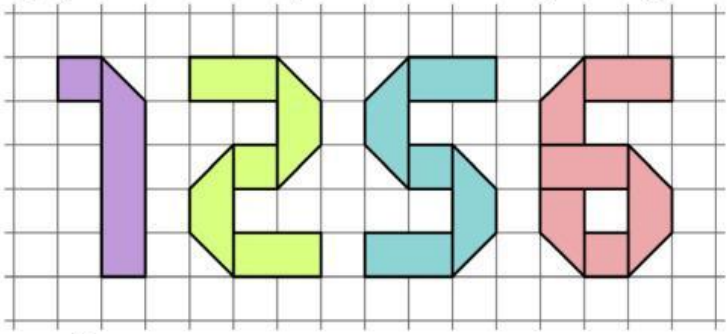
To do this, he uses these triangles of equal size: ▲.

How many more of these triangles ▲ does he need so that the big triangle is completely filled?



(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

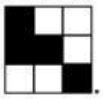
5. Each of the numbers 1, 2, 5 and 6 in the picture is made by folding a strip of paper.



Which strip is the longest?

(A) 1 (B) 2 (C) 5 (D) 6 (E) All strips are equally long.

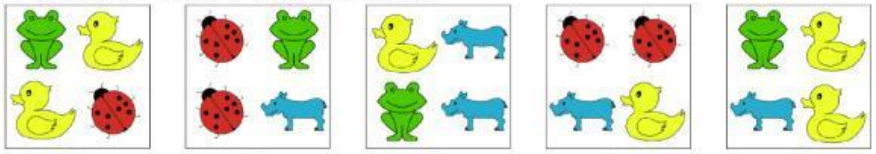
– 4 Point Examples –

6. Tim has black and white squares of paper. He sticks the squares on the inside of a window so that this pattern emerges:  .

Which pattern can be seen from outside?

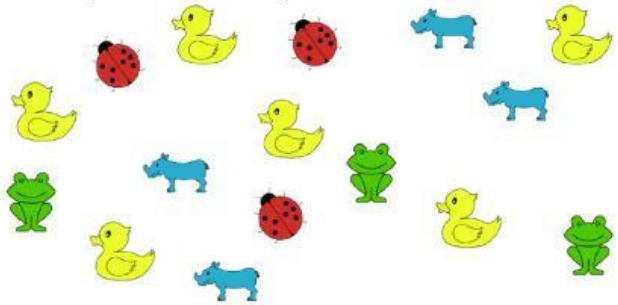
(A)  (B)  (C)  (D)  (E) 

7. Chen has these 5 baskets with 4 toys in each.



A B C D E

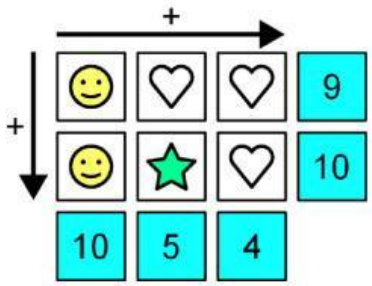
4 baskets fall down and the toys lie mixed up on the floor.



Which basket did he not drop?

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

8. In the table, each shape stands for a different number.



What number does the star ★ stand for?

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

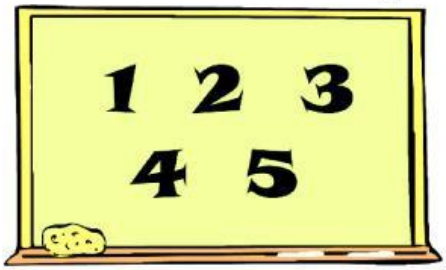
9. Marina draws these five pictures , , , and .
Marina repeats them in the same order over and over again:

...

Which picture is the 27th picture?

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

10. Ali chooses 2 numbers from the board and adds them together.

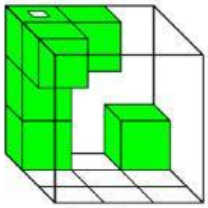


How many different results are possible?

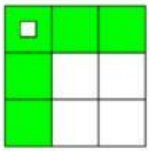
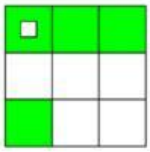
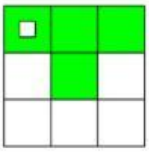
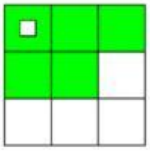
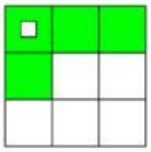
(A) 5 (B) 6 (C) 7 (D) 8 (E) 10

– 5 Point Examples –

11. Chiara has a see-through cube. Inside there are 6 small cubes, see picture.



What does Chiara see if she looks at the cube from above?

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

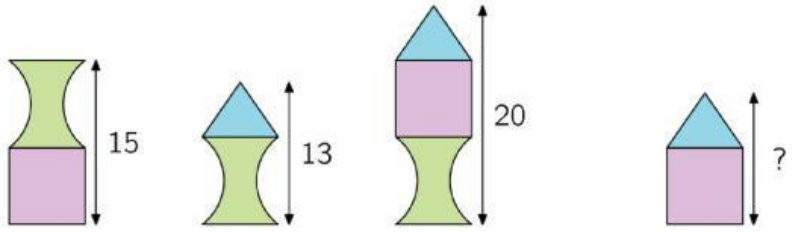
12. Anna, Bella, Che and Dimitry each have three shapes. Each child has exactly one of their shapes the same as one of the other children.

Anna has △ ○ □,
Bella has ♡ □ ☆ and
Che has ☆ △ ◇

Which shapes does Dimitry have?

(A) □ ♡ ◇ (B) ♡ ○ △ (C) ☆ ◇ ○ (D) □ ☆ △ (E) ◇ ○ ♡

13. Zoran builds towers made from three different building blocks. The picture shows the heights of three towers.



How high is the fourth tower?

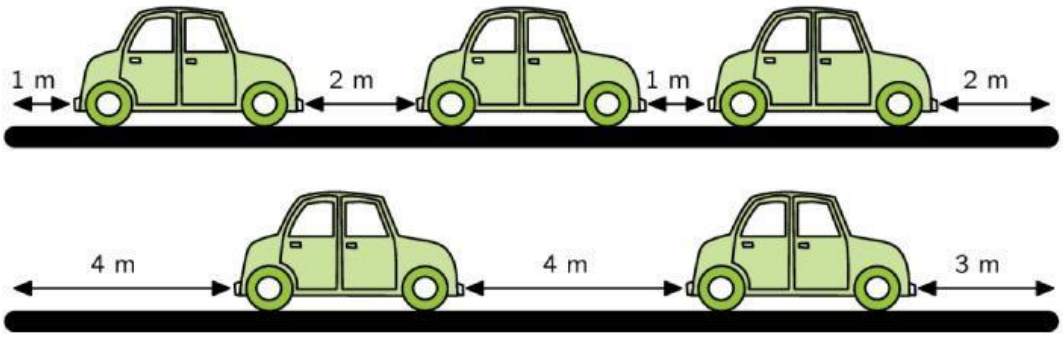
(A) 12 (B) 13 (C) 14 (D) 16 (E) 17

14. Andrew throws arrows at a target board.

He starts with 10 arrows. Each time he hits the target, he gets 2 more arrows.
In total Andrew throws 20 arrows. Then he has run out of arrows.
How often did Andrew hit the target?

(A) 4 (B) 5 (C) 6 (D) 8 (E) 10

15. These two pictures show a bridge at different times.



All cars are the same length.
The numbers state the distances between the cars or between the cars and the end of the bridge.
How long is each car?

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