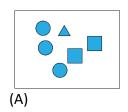
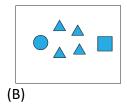
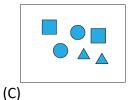
## KSF 2022 - PreEcolier (P)

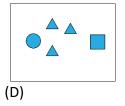
## 3 points problems

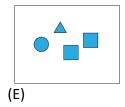
1. Which box contains the most triangles?



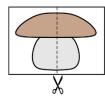




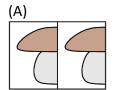


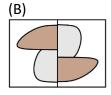


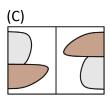
2. Arek cuts this picture in half and puts the two pieces together.

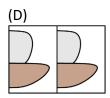


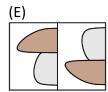
Which option shows the two pieces of Arek's picture?











**3.** The picture shows 5 identical bricks. How many bricks are touching exactly 3 other bricks?

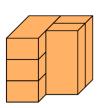


(B) 2

(C) 3

(D) 4

(E) 5



**4.** One sandwich and one juice together cost 12 euro. One sandwich and two juices together cost 14 euro. How much does one juice cost?

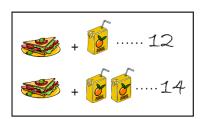


(B) 2

(C)3

(D) 4

(E) 5



**5.** There has to be 2 coins in each row and each column. Where do you need to put the final coin?

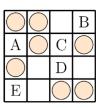
(A) A

(B) B

(C) C

(D) D

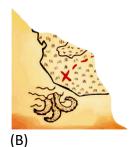
(E) E



**6.** A monkey has torn a piece from Captain Jack's map. Which is the missing piece?















**7.** Peter puts the 4 puzzle pieces shown together to make a square Which picture can he make?





(B)



(C)



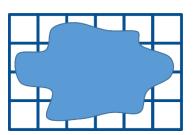
(D)



(E)



- **8.** Some ink spilled on a piece of squared paper, as shown in the picture. How many of the squares have ink on them?
  - (A) 16
- (B) 17
- (C) 18
- (D) 19
- (E) 20



## 4 points problems

- **9.** Kanga wrote down a number and then covered each digit with a shape:

  Different digits were covered by different shapes, and the same digits were covered by the same shape. Which number could be written under these shapes?
- (A) 34426
- (B) 34526
- (C) 34423
- (D) 34424
- (E) 32446

**10.** One animal sleeps in each of the baskets. The koala and the fox are sleeping in baskets with the same pattern and shape. The kangaroo and the ostrich have the











same pattern on their baskets. Which basket is the puppy sleeping in?

- (A) basket 1
- (B) basket 2
- (C) basket 3
- (D) basket 4
- (E) basket 5
- **11.** Kanga wants to reach the koala without going through any of the coloured squares. Which route could she take?

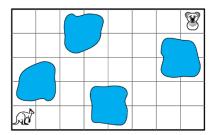




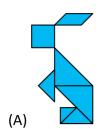


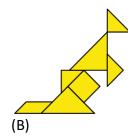


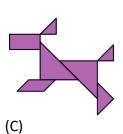




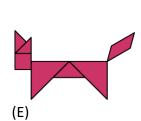
**12.** In one of the pictures below, a shape is used that cannot be seen in the others. In which Picture is it?











13. Which option shows the view from above this stack of discs?















**14.** Which of the following pictures will we see when we use the stamp shown?









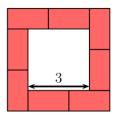


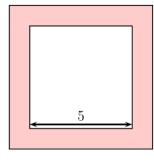
**15.** Katrin builds a path aroun<u>d each</u> square



using tiles like the one shown 2 . How many tiles does she use around a square with side 5?







(A) 10

(B) 11

(C) 12

(D) 14

(E) 16

**16.** Ann has 4 stickers as shown down the star before she sticks down the star after she sticks down the square. She sticks down the star before she sticks down the triangle. Which picture could she end up with?











## 5 points problems

**17.** The sum of the five numbers in each house is 20. Some numbers have been painted over. What number is hidden under the question mark?



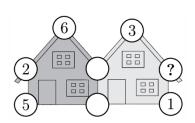
(B) 4

(C) 7

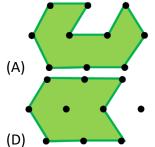
(D) 9

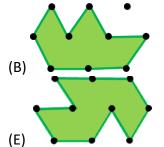
(C)

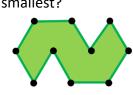
(E) 14



18. Some lawns are shown below. Which lawn is the smallest?







bear. For her	second birthday ar more than the	she received	2 teddy bears	. For each su	st birthday she red bsequent birthda does Maria have	y she received	
(A) 19	(B) 20		1	(D) 22	(E) 23		
going through room once. D	ves from the ent n rooms. He can ino adds up the r room. What is t	only go throu numbers as he	gh each e passes		—— <sup>*</sup>	4 8	
(A) 27	(B) 29		) 32	(D) 34	(E) 3	6	
21. In the picture, each shape stands for a different number. Which number should be written in place of the question mark?							
(A) 10	(B) 12	(C) 14	(D) 16	(E) 18	3 ↓	△ ○ △ 10 14 ?	
	nas 3 more than				the most stripes ba. How many sti		
(A) 16	(B)18	(C	) 20	(D) 21	(E) 2	(E) 22	
<b>23.</b> Kangy's catake?	ar can only turn lo	eft. It can nev	er turn right. \	Which of the	following five rou	ites can Kangy	
(A)	(B) (B)			(D)	(E)		
may swap two	e five numbered o cards at each si to put the cards	tep. What is tl	ne smallest nu		341	<b>5</b> 2	

(C) 3

(D) 4

(B) 2

(A) 1

(E) 5