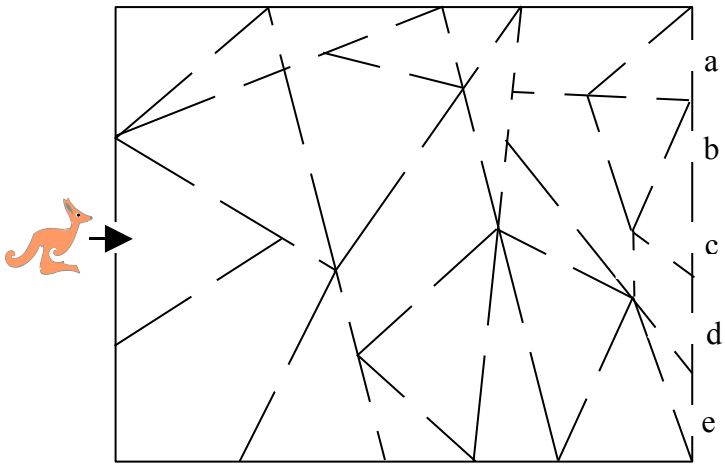
3 points

1. A kangaroo enters a building. He only passes through triangular rooms. Where does he leave the building?

A) a B) b C) c
D) d E) e



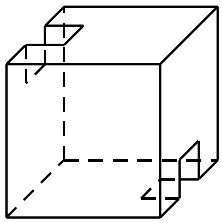
2. The contest Kangaroo in Europe has taken place every year since 1991. So, the contest Kangaroo in 2006 is the

A) 15th B) 16th C) 17th
D) 13th E) 14th

3. $20\cdot(0+6)-(20\cdot0)+6 =$

A) 0 B) 106 C) 114 D) 126 E) 12

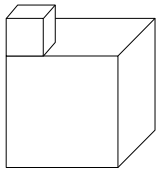
4. A cube with two holes in the right picture has one of the following nets:



5. If kangaroo Jumpy pushes himself with his left leg, he will jump on 2 m, if he pushes with the right leg, he will jump on 4 m, and if he pushes with both legs, he will jump on 7 m. What the least number of jumps should Jumpy make to cover a distance of exactly 1000 m?

A) 140 B) 144 C) 175 D) 176 E) 150

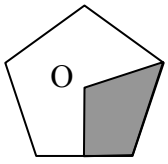
6. The solid in the picture is created from two cubes. The faces of the small cube are 1 cm^2 and the faces of the bigger are 9 cm^2 each. What is the total surface area of this solid?



A) 56 cm^2 B) 58 cm^2 C) 60 cm^2 D) 62 cm^2 E) 64 cm^2

7. The point O is the center of a regular pentagon. How much of the pentagon is shaded?

A) 10% B) 20% C) 25% D) 30% E) 40%



4 points

8. If it's blue, it's round.
If it's square, it's red.
It's either blue or yellow.
If it's yellow, it's square.
It's either square or round.

That means:
A) It's red
B) It's red and round
C) It's a blue square
D) It's blue and round
E) It's yellow and round

9. Two sides of a triangle are each 7 cm long. The length of the third side is an integer number of centimeters. At most how many centimeters does the perimeter of the triangle measure?
A) 14 cm B) 15 cm C) 21 cm D) 27 cm E) 28 cm

10. Which number when squared is increased by 500%?
A) 5 B) 6 C) 7 D) 8 E) 10

11. Three Tuesdays of a month fall on even dates. What day of a week was the 21st day of this month?
A) Wednesday B) Thursday C) Friday D) Saturday E) Sunday

12. Alex, Hans and Stan saved money to buy a tent for a camping trip. Stan saved 60 % of the price. Alex saved 40 % of what was left of the price. This way Hans´ share of the price was 30 €. What was the price of the tent?
A) 50 € B) 60 € C) 125 € D) 150 € E) 200 €

13. Granny told her grandchildren: "If I bake 2 pies for each of you, I'll have enough pastry left for 3 more pies. But I won't be able to bake 3 pies for each of you, as I'll have no pastry left for the last 2 pies." How many grandchildren does Granny have?
A) 2 B) 3 C) 4 D) 5 E) 6

14. The first row shows 11 cards, each with two letters. The second row shows rearrangement of the cards. Which of the following could appear on the bottom line of the second row?

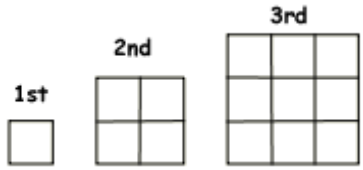
M	I	S	S	I	S	S	I	P	P	I
K	I	L	I	M	A	N	J	A	R	O

P	S	I	S	I	M	I	S	S	P	I

A) ANJAMKILIOR B) RLIIMKOJNAA C) JANAMKILIRO
D) ANMAIKOLIRJ E) RAONJMILIKA

5 points

15. Belinda is making patterns with toothpicks according to the schema of the figure. How many toothpicks does Belinda add to the 30th pattern to make the 31st?



A) 124 B) 148 C) 61 D) 254 E) 120

16. A bottle that can hold 1/3 litres is 3/4 full. How much will it contain after 20 cl has been poured out of it?

A) It is empty B) 5 cl C) 7,5 cl D) 13 cl E) 24,5 cl

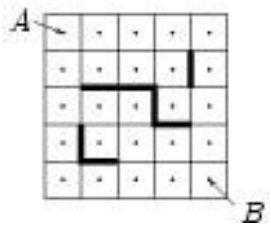
17. A train is composed of four wagons, I, II, III and IV, pulled by a locomotive. In how many ways can the train be composed so that the wagon I is nearer the locomotive that the wagon II?

A) 6 B) 8 C) 10 D) 12 E) 14

18. An interview of 2006 schoolchildren revealed that 1500 of them participated in the "Kangaroo" contest, 1200 in the "Bear cub" competition. How many from the interviewed children participated in both competitions, if 6 of them did not participate in either of the competitions?

A) 300 B) 500 C) 600 D) 700 E) 1000

19. Max and Moritz have drawn a 5 x 5-square and marked the centres of the small squares. Afterwards, they draw obstacles and then find out in how many ways it is possible to go from *A* to *B* avoiding the obstacles and going from centre to centre only down vertically and right horizontally. How many paths are there from *A* to *B* under these conditions?

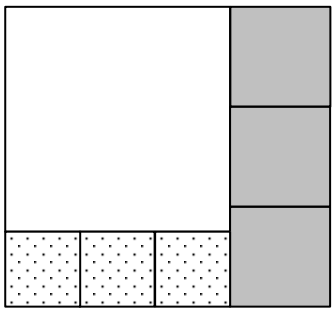


A) 6 B) 8 C) 9 D) 11 E) 12

20. What is the first digit of the smallest natural number that has the sum of its digits equal to 2006?

A) 1 B) 3 C) 5 D) 6 E) 8

21. A rectangle is divided into 7 squares. The sides of the grey squares on the right are all 8 cm.What is the side of the great white square?



A) 15 cm B) 18 cm C) 20 cm D) 24 cm E) 30 cm