3 point questions:

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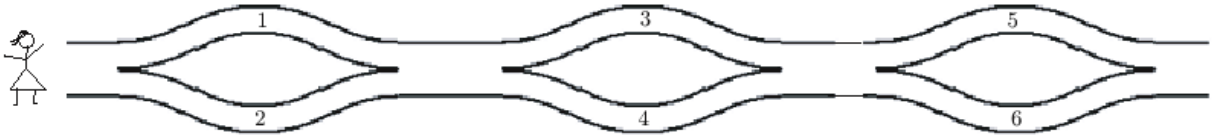
1. Zita walks from the left to the right and puts the numbers in her basket. Which of the following numbers can be found in her basket?



A) 1, 2 and 4 **B)** 2, 3 and 4 **C)** 2, 3 and 5 **D)** 1, 5 and 6 **E)** 1, 2 and 5

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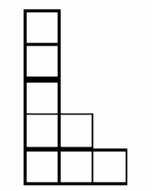
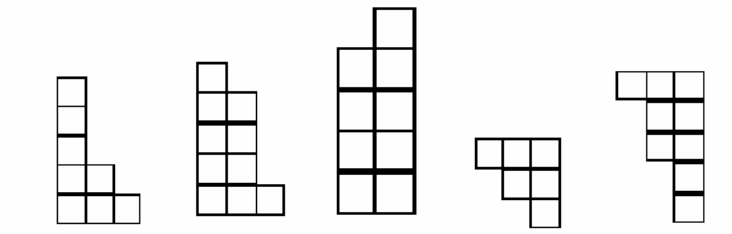
2. What is the piece that fits together with the given one to form a regtangle? You can turn the pieces.



A) **B)** **C)** **D)** **E)**



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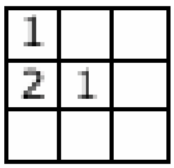
3. In the square below the numbers 1, 2 and 3 must be written in the cells. Each of the numbers 1, 2 and 3 must appearin each row and in each column. Harry started to fill in the square. In how many ways can he complete this task?



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

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4. A kangaroo can do 4 jumps in 6 seconds. How long does it take her to do 10 jumps?

A) 10 s **B)** 12 s **C)** 15 s **D)** 18 s **E)** 20 s

5. How much is $2007 : (2 + 0 + 0 + 7) - 2 \cdot 0 \cdot 0 \cdot 7$?

A) 1 **B)** 9 **C)** 214 **D)** 223 **E)** 2007

6. Basil, who is older than Pete by 1 year minus 1 day, was born on January 1, 2002. When was Pete born? Choose the correct date.

A) January 2, 2003 **B)** January 2, 2002 **C)** December 31, 2000 **D)** December 31, 2002 **E)** December 31, 2003

7. A 1 m^3 cube is cut into 1 dm^3 cubes and the little cubes are put one on top of the other one to build a tower. What is the height of this tower?

A) 100 m **B)** 1 km **C)** 10 km **D)** 1000 km **E)** 10 m

4 point questions:

8. In a square grid Hanna colours the small squares that lie on the diagonals. She coloured 9 small squares. What was the size of the grid?

A) 3x3 squares **B)** 4x4 squares **C)** 5x5 squares **D)** 8x8 squares **E)** 9x9 squares

9. Ana, Blanka, Cecilia and Diana each go in for different kinds of sport: karate, soccer, volleyball and judo. Ana does not like sports played with a ball, the judo player Blanka often attends a soccer match to watch her friend play. One of the following statements is true, which one?

A) Ana plays volleyball

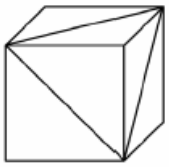
B) Blanka plays soccer

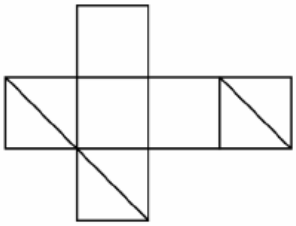
C) Cecilia plays volleyball

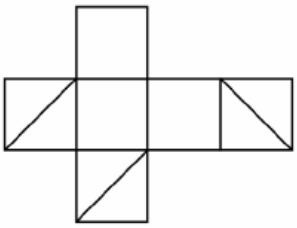
D) Diana plays karate

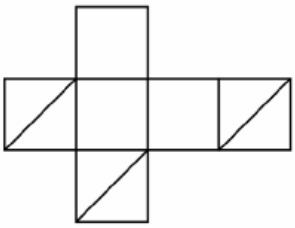
E) Ana plays judo

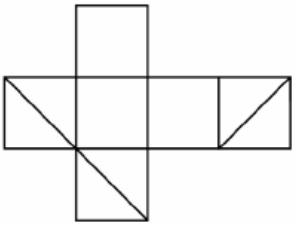
10. In three adjacent faces of a cube diagonals are drawn as shown in the figure. The cube was built using one of the patterns below. Which one?



A) 

B) 

C) 

D) 

E) none of these

11. There were 60 birds in three trees. Then 6 birds flew away from the first tree, 8 birds flew away from the second tree, and 4 birds flew away from the third tree. Now each tree had an equal amount of birds. How many birds were there in the second tree in the beginning?

A) 26 **B)** 24 **C)** 22 **D)** 21 **E)** 20

12. Two 9 cm x 9 cm squares overlap to form a 9 cm x 13 cm rectangle as shown. Find the area of the region in which the two squares overlap.

A) 36 cm² **B)** 45 cm² **C)** 54 cm² **D)** 63 cm² **E)** 72 cm²

13. Harry let an owl out at 7:30 a.m., to deliver a message to Ron. The owl delivered the envelope to Ron at 9:10 a.m. The owl flies 4 km in 10 minutes. What was the distance between Ron and Harry?

A) 14 km **B)** 20 km **C)** 40 km **D)** 56 km **E)** 64 km

14. When we write the Finnish word KENGURU one after another we get the letter sequence K E N G U R U K E N G U R U K E N G U R U K E N…
What is the 2007th letter in the sequence?

A) K **B)** E **C)** N **D)** R **E)** U

5 point questions:

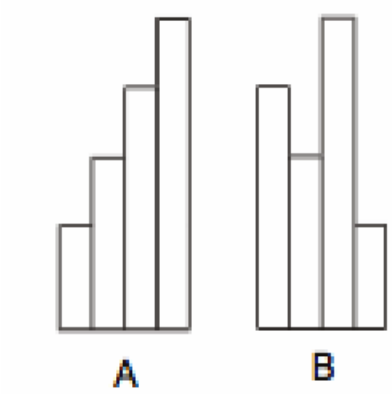
15. Agnes is 10 years old. Her mother Lisa is 4 times her age. How old will Lisa be when Agnes is twice as old as she is now?

A) 40 years **B)** 50 years **C)** 60 years **D)** 70 years **E)** 80 years

16. To the right side of a given 2-digit number we write the same number obtaining a 4-digit number. By what number do we need to multiply this 2-digit number to get the 4-digit number explained above?

A) 100 **B)** 101 **C)** 1000 **D)** 1001 **E)**10

17. Two figures A and B are done using four paper ribbons of width 10 cm. Each of the ribbons is 25 cm longer than the previous one. How much longer is the perimeter of the figure B than the perimeter of the figure A?

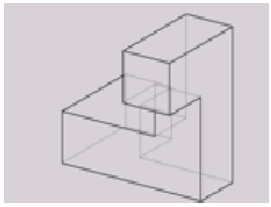


A) 20 cm **B)** 25 cm **C)** 40 cm **D)** 50 cm **E)** 0 cm

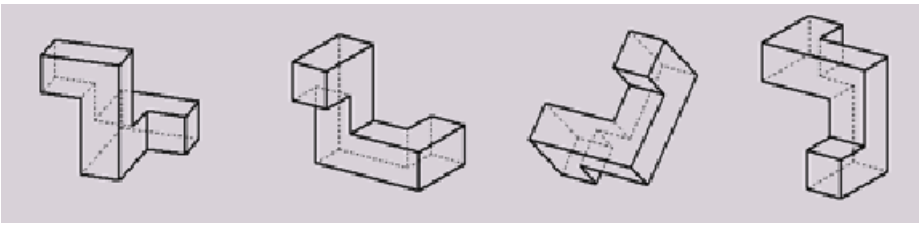
18. Bill thought of an integer. Nick multiplied it either by 5 or 6. John added to the Nick's result either 5 or 6. Andrew subracted from John's result either 5 or 6. The obtained result was 73. What number did Bill think of?

A) 10 **B)** 11 **C)** 12 **D)** 14 **E)**15

19. To which of the following positions can we rotate the given object?



W X Y Z



A) W and Y **B)** X and Z **C)** only Y **D)** none of these **E)** W, X and Y

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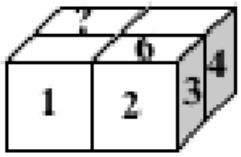
20. The faces of a dice are numbered 1, 2, ..., 6, the sum of the numbers in any two opposite faces being 7. Using 4 such identical dice, Nick composed a 2 x 2 x 1 parallelepiped as shown in the figure. The numbers on any two touching faces of the dice are equal. The numbers on some faces are shown in the figure. Which number is on the face which has the question mark?



A) 5 **B)** 6 **C)** 2 **D)** 3 **E)** impossible to solve

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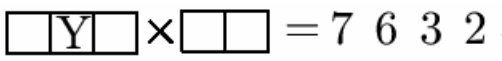
21. The multiplication



uses each of the digits 1 to 9 exactly once. What is digit Y?

A) 1 **B)** 4 **C)** 5 **D)** 8 **E)** 9