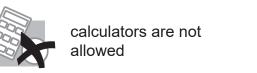


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Only a pencil, an eraser and scribbling paper are allowed



answers will be posted on the website about March 29<sup>th</sup>



you may use 50 minutes



results and prizes will arrive at school at the end of May



solutions will be posted on the website about April 20<sup>th</sup>



www.zwijsen.nl











www.schoolsupport.nl





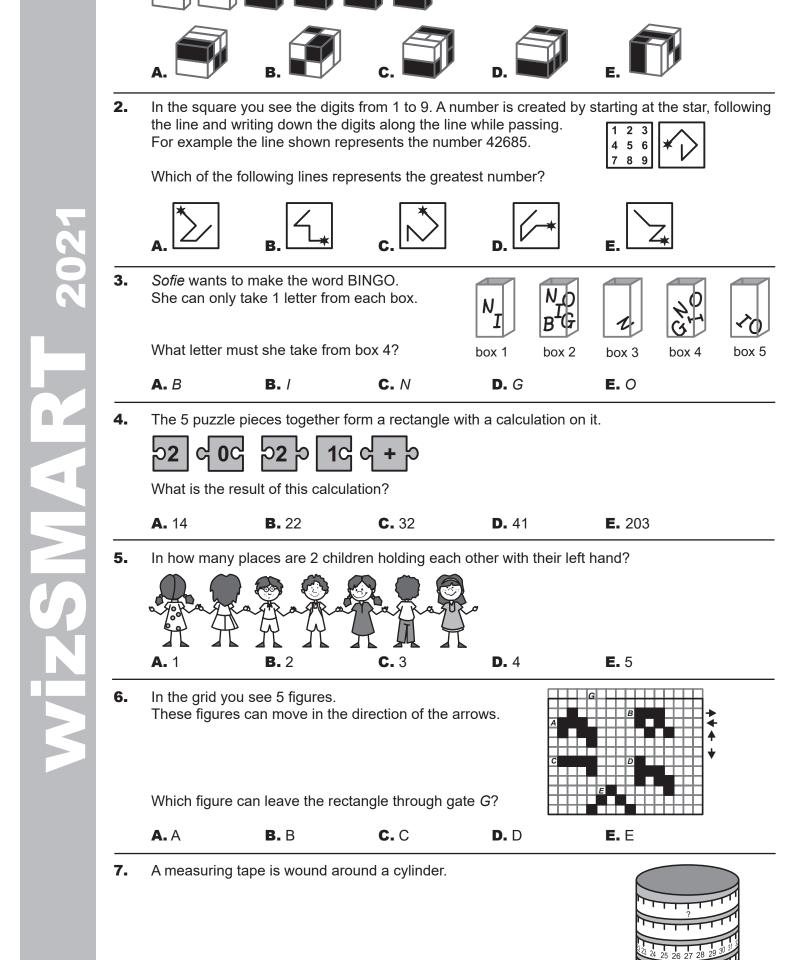






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**C.** 69

**D.** 77

**E.** 81

What is the number at the question mark?

**B.** 60

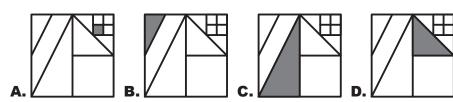
**A.** 53

Which of the following constructions can be made with these 6 blocks?

1.

**8.** Lines are drawn in the squares below. Each line starts either in a vertex or in the middle of one side of one of the squares.

In which square is 1/8 part grey coloured?



**9.** *Julian* writes the number 5021972970 on a sheet of paper. Then he cuts the sheet twice, now he has 3 numbers. *Julian* adds these 3 numbers.

What is the smallest sum Julian can get?

**A.** 3244

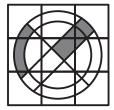
**B.** 3444

**C.** 5172

**D.** 5217

**E.** 5444

**10.** On the right you see a puzzle of 9 pieces.



Which piece is **not** part of the puzzle?



в.

c.

D. \_\_\_\_

E. .

**11.** *Manouk* has a 4-digit bike lock with the digits from 0 to 9. After opening, she turns all numbers in the same direction equally far.

Which code cannot be the right code of her bike lock?















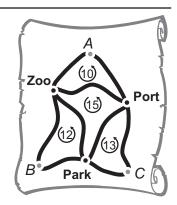
**12.** In the map points *A*, *B* and *C* are bus stations.

The tour A - Zoo - Port - A is 10 km.

The tour *B* – *Park* – *Zoo* – *B* is 12 km.

The tour C - Port - Park - C is 13 km.

The tour Zoo - Park - Port - Zoo is 15 km.



How many km is the tour A - B - C - A?

**A.** 20 km

**B.** 25 km

**C.** 27 km

**D.** 35 km

**E.** 50 km

**13.** Ronja has 4 white stones, Wanja has 4 black stones. Taking turns they are stacking their stones and creating 2 piles. Ronja starts.

Which pair of piles could **not** be a result of their play?











She wants to arrange her books on the shelf from large to small.

What is the smallest number of moves she will need to arrange her books?

**C.** 4

**D.** 5

**E.** 6

In each move she is allowed to change 2 books.

**B.** 3

**A.** 2

**14.** On the right you see 3 hexagons.

At every vertex a number is written, but some numbers are invisible. If you add the numbers of each hexagon, you get 30 as a result.

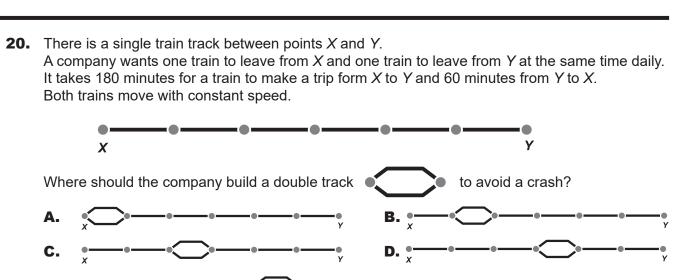
What is the number on the vertex with a question mark?

sum

 $\triangleright$  D

22





**21.** Anne, Bob, Corina, Daan and Edwin are sitting at a round table. Anne is not sitting next to Bob.

Daan is sitting next to Edwin.

Bob is not sitting next to Daan.

Who are sitting next to Corina?

A. Anne and Bob

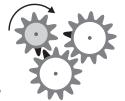
**B.** Bob and Daan

C. Daan and Edwin

**D.** Edwin and Anne

**E.** you can not know

**22.** On the right you see 3 gears.
Each gear has 1 black tooth.
The smallest gear is turned 1 full turn clockwise.



Which picture shows the right positions of the black teeth?

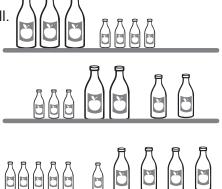








**23.** Each shelf holds a total of 64 dl of apple juice. The bottles have 3 different sizes: large, medium and small.



How many dl of apple juice does a medium size bottle contain?

**A.** 3

**B.** 6

**C.** 8

**D.** 10

**E.** 14

**24.** Lianne has drawn a red cross from vertix to vertix on all sides of a large cube with sides of 7 cm. She now cuts this cube into small cubes with sides of 1 cm.

How many of these small cubes have at least 1 piece of a red line drawn on it?

**A.** 54

**B.** 62

**C.** 70

**D.** 78

**E.** 86