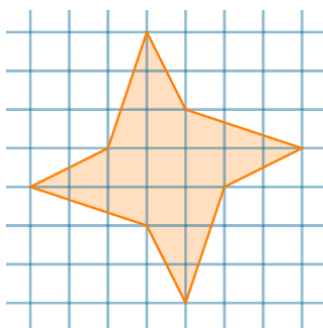




## האולימפיאדה הארצית במתמטיקה לכיתות ג-ד שלב א, שנת תשפ"א

1. What is the area of the following figure?



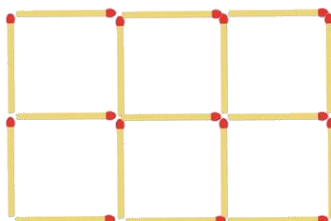
*Remark* The area of a small grid square is 1.

2. Avi, Benny and Gili went to the woods to pick mushrooms. Benny found 7 more mushrooms than Avi, and Gili found 3 more mushrooms than Benny. How many mushrooms did Benny find if Avi and Gili found 20 mushrooms in total?

3. A double digit number is written on a whiteboard. If we erase its tens digit, we will get a number that is 15 times smaller than the original number. What is the original number?

4. The store has 50 chocolate coins, 40 lollipops, 30 packs of bamba and 20 packs of gum. The shopkeeper prepares gift packages, each containing 3 different products. What's the largest number of gift packages the shopkeeper can make?

5. Pictured is a  $2 \times 3$  rectangle made up of 17 matches, divided into  $1 \times 1$  squares. How many matches does it take to put together a  $4 \times 6$  rectangle (also divided into  $1 \times 1$  squares)?





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6. Six people live on different floors of a 6-story building. Of these, two are liars, and the rest are truth-tellers. They said the following sentences:

Alon: "On the floor above me lives a liar."

Benny: "Two floors above me lives a liar."

Guy: "Three floors above me lives a liar."

Dor: "Three floors below me lives a liar."

Hila: "The liars live on floors 3 and 4."

Vered: "The liars live on floors 1 and 2."

On which floor does Vered live?

**בהצלחה!**