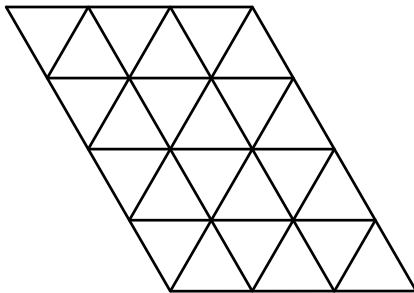
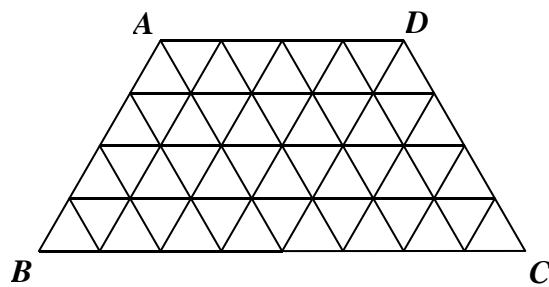


1. Alex and Ben set out from two places at the same time and walked in opposite directions. At 20 minutes, they were still 750 meters apart, and at 30 minutes, they were again 750 meters apart. It is known that Alex walked 70 meters per minute, so how many meters per minute did Ben walk?

2. As shown in the figure, if each small triangle in the figure is an equilateral triangle, how many triangles are there in the figure?



3. As shown in the figure, each small triangle in the figure is an equilateral triangle. How many shortest routes are there from B to D?

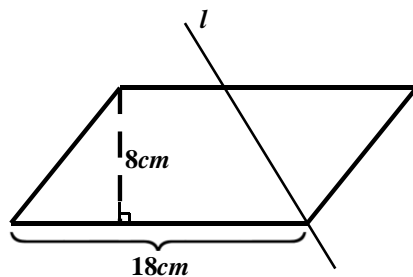


4. In 2021, the sum of the ages of Lao Zhang and Lao Li was 105 years old. A few years ago, when Lao Zhang's age was Lao Li's present age, Lao Li's age was exactly half of Lao Zhang's present age. When was Lao Zhang born?

5. A, B and C have 216 stamps in total. After taking some of the stamps from A to B, B's number of stamps has doubled; Then take some of B's stamps and give them to C, and the number of C's stamps has doubled; Finally, some stamps are taken from C's stamps and given to A. The number of stamps for A has doubled. When the number of stamps for A, B and C is the same, how many stamps does A have at first?

6. In an exam, the scores of several students formed an arithmetic sequence with a tolerance of 2, and the total score was 528 points. Alex found that his score was less, and after asking the teacher to correct it, he added 12 points. At this time, their scores were still an equal difference sequence, so how much or less was Tian Tian's corrected score?

7. As shown in the figure, one side of the parallelogram is 18 cm long, and the height on this side is 8 cm. A line segment l divides the parallelogram into a trapezoid on the left and a triangle on the right. Given that the area difference between the two parts is 48 square centimetres, how many centimetres is the upper bottom of the trapezoid?



8. Write the continuous natural even number starting from 2 into a number string: 246810121416182022..... until the first occurrence of "483" in the number string, how many numbers are written?