

Math Kangaroo 2017 Sample Questions

LEVELS 5 AND 6

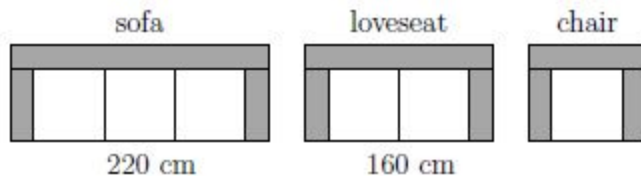
SAMPLE QUESTION FOR 3 POINTS

A special die has a number on each face. The sums of the numbers on opposite faces are all equal. Five of the numbers are 5, 6, 9, 11 and 14. What number is on the sixth face?

- A) 4 B) 7 C) 8 D) 13 E) 15

SAMPLE QUESTION FOR 4 POINTS

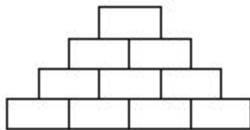
The Modern Furniture store is selling sofas, loveseats, and chairs made from identical modular pieces as shown in the picture. Including the armrests, the width of the sofa is 220 cm and the width of the loveseat is 160 cm. What is the width of the chair?



- A) 60 cm B) 80 cm C) 90 cm D) 100 cm E) 120 cm

SAMPLE QUESTION FOR 5 POINTS

John wants to write a natural number in each box in the diagram in such a way that each number above the bottom row is the sum of the two numbers in the boxes immediately underneath. What is the largest number of odd numbers that John can write?



- A) 4 B) 5 C) 6 D) 7 E) 8