

# Math Kangaroo 2017 Sample Questions

## LEVELS 7 AND 8

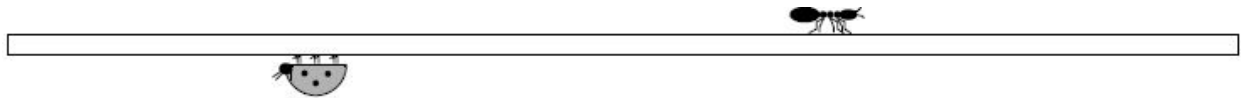
### SAMPLE QUESTION FOR 3 POINTS

A group of girls stands in a circle. Xena is the fourth to the left from Yana and the seventh to the right from Yana. How many girls are in the group?

- A) 9      B) 10      C) 11      D) 12      E) 13

### SAMPLE QUESTION FOR 4 POINTS

Annie the Ant started at the left end of a pole and crawled  $\frac{2}{3}$  of its length. Bob the Beetle started at the right end of the same pole and crawled  $\frac{3}{4}$  of its length. What fraction of the length of the pole are Annie and Bob now apart?



- A)  $\frac{3}{8}$       B)  $\frac{1}{12}$       C)  $\frac{5}{7}$       D)  $\frac{1}{2}$       E)  $\frac{5}{12}$

### SAMPLE QUESTION FOR 5 POINTS

Ten kangaroos stood in a line as shown in the diagram. At some point, two kangaroos standing side by side and facing each other exchanged places by jumping past each other. This was repeated until no further jumps were possible. How many exchanges were made?

- A) 15      B) 16      C) 18      D) 20      E) 21