Math Kangaroo 2008 Sample Questions - Levels 5 & 6

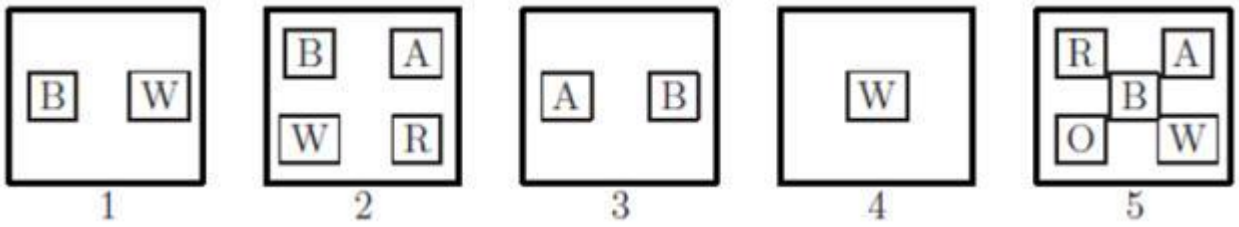
1. Which number is the smallest?

A) 2 + 0 + 0 + 8 B) 200 ÷ 8 C) 2 × 0 × 0 × 8 D) 200 − 8 E) 8 + 0 + 0 – 2

2. In order to make the expression  ×  = 2 × 2 × 3 × 3 true, we need to replace  with:

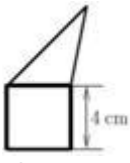
A) 2 B) 3 C) 2 × 3 D) 2 × 2 E) 3 × 3

11. There are five boxes as shown in the picture, and each one contains cards with different letters. Paul wants to remove cards from the boxes in such a way that there is only one card left in each box, and that every box has a card with a different letter in it. Which card will be left in box 5?



A) B B) R C) A D) W E) O

12. In the picture to the right, the perimeters of the square and of the triangle are equal. What is the perimeter of the pentagon that they compose when put together in the way shown?



A) 12 cm B) 24 cm C) 28 cm D) 32 cm E) 18 cm

25. Points *A*, *B*, *C* and *D* are marked on a straight line in a certain order. We know that |*AB*| = 13, |*BC*| = 11, |*CD*| = 14 and |*DA*| = 12. What is the distance between the two points farthest from each other?

A) 14 B) 38 C) 50 D) 25 E)23

26. A train traveling at a steady speed crossed a bridge which was 200 m long in 1 minute. The whole train passed a person standing on the bridge in 12 seconds. How long was the train?

A) 100 m B) 60 m C) 50 m D) 40 m E) 75 m