



*Kangaroon Sans Frontières*

*Mathematics Promotion Society*

*Math Kangaroo in USA*

# Math Kangaroo 2013 in USA

International Competition in Mathematics  
Thursday, March 21, 2013

Levels 7 and 8

This test consists of 30 questions on 4 pages.  
You have 75 minutes to complete it.

Calculators are not allowed!

Please enter your answers on the answer form provided.  
Please put your name and ID number on the line below.

**Problems 3 points each**

1. In the picture, the big triangle is equilateral and has an area of 9. The lines are parallel to the sides and divide the sides into three equal parts. What is the area of the shaded part?

- (A) 1      (B) 4      (C) 5      (D) 6      (E) 7



2. It is true that  $\frac{222}{111}^2 = 11$ . What is the value of  $\frac{222}{111}^3 + \frac{222}{111}$ ?

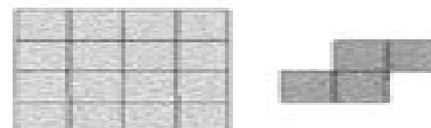
- (A) 5      (B) 9      (C) 11      (D) 55      (E) 99

3. The masses of salt and fresh water in sea water in Protaras are in the ratio 7 : 193. How many kilograms of salt are there in 1000 kg of sea water?

- (A) 35      (B) 180      (C) 193      (D) 200      (E) 350

4. Ann has the square sheet of paper shown to the right. By cutting along the lines of the square, she cuts out copies of the shape shown further to the right. What is the smallest possible number of cells remaining?

- (A) 9      (B) 2      (C) 4      (D) 6      (E) 8



5. Roo wants to tell Kanga a number with the product of its digits equal to 24. What is the sum of the digits of the smallest number that Roo could tell Kanga?

- (A) 6      (B) 8      (C) 9      (D) 10      (E) 11

6. A bag contains balls of five different colors. Two are red, three are blue, ten are white, four are green and three are black. Balls are taken from the bag without looking, and not returned. What is the smallest number of balls that should be taken from the bag to be sure that two balls of the same color have been taken?

- (A) 2      (B) 12      (C) 10      (D) 5      (E) 6

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