

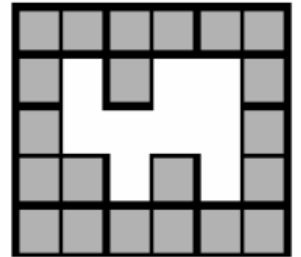
2010 MathEdge+ JS and Beg Contest

Grades K-1 (JS) do problems 1-10. Grades 2-3 (B) do problems 1-15. Please box the answer. Only correct answer counts. No partial credit will be given. No Calculator. 30 mins. The higher # (harder) problems will be used for tiebreak.

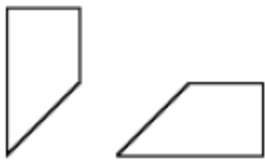
1) Draw the next two shapes:



2) How many more square tiles do we need to put on the kitchen floor to cover all of it? (See the picture on the left.)

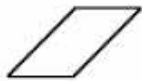


3) A square piece of paper has been cut into three pieces. Two of them are shown in the picture:



Which of the pieces below is the third one?

A)



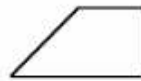
B)



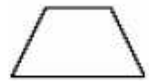
C)



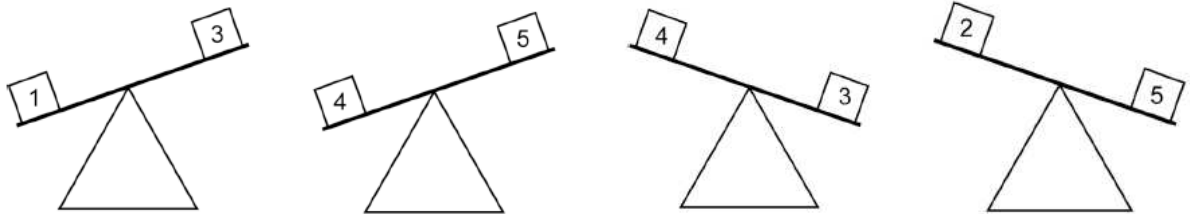
D)



E)



4) From the diagram below, which one of the five boxes is the lightest?



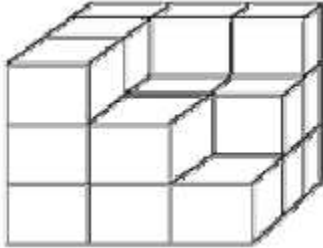
5) How to use all these 6 digits: 2, 5, 6, 7, 8, 9 to form a correct 2-digit addition problem?

6) Sixteen children are standing in a line. Alice is the third counting from the back. Judy is the third counting from the front. How many children are between Judy and Alice?





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
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- 7) How many of the cubes in the figure below have exactly 3 faces showing including looking at the bottom?

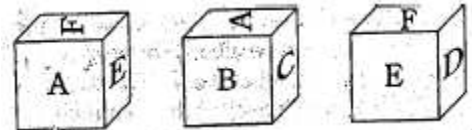


- 8) In the following table, the operation is listed above its result. Which of the following is $C * E$?

$A * B$	$C * D$	$A * E$	$B * D$
			

- a.  b.  c.  d.  e. 

- 9) The three figures below show the same object from different views. Pick a pair of letters that appear on the opposite sides on this cube.



- (A) A and D (B) B and F (C) B and D (D) C and E (E) none of these

- 10) Some keys on Joe's typewriter do not type correctly. For example, when the "S" key is pressed, it types an "M". When Joe read the following addition sentence after typing it, he found that the sum was typed correctly but the two addends were typed incorrectly. Which number (only one) on Joe's typewriter typed incorrectly and replaced with what number?

$$34,729 + 37,543 = 76,312$$

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$$\begin{array}{r}
 \text{peach} + \text{pear} = 7 \\
 \text{pear} + \text{banana} = 10 \\
 \text{banana} + \text{peach} = 9 \\
 \text{peach} = (\quad) \quad \text{pear} = (\quad) \quad \text{banana} = (\quad)
 \end{array}$$

11)

12) How many 2-digit numbers, with no digits being the same, can be made using the digits: 1, 2, 3, 4, 7, and 9?

13) The digits 3, 4, 5, and 7 are placed in the following squares to give the multiplication problem with the smallest answer possible. What is the smallest answer?

$$\begin{array}{r}
 \square \square \square \\
 \times \quad \square \\
 \hline
 \end{array}$$

14) A certain bar code consists of 17 black bars. A white bar divides each two black bars. The first bar and the last bar in the code are black. There are two kinds of black bars: wide and narrow. The number of white bars is 3 more than the number of wide black bars. How many narrow black bars are there in this bar code?



15) When is a Square not a Rhombus?