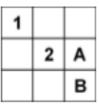
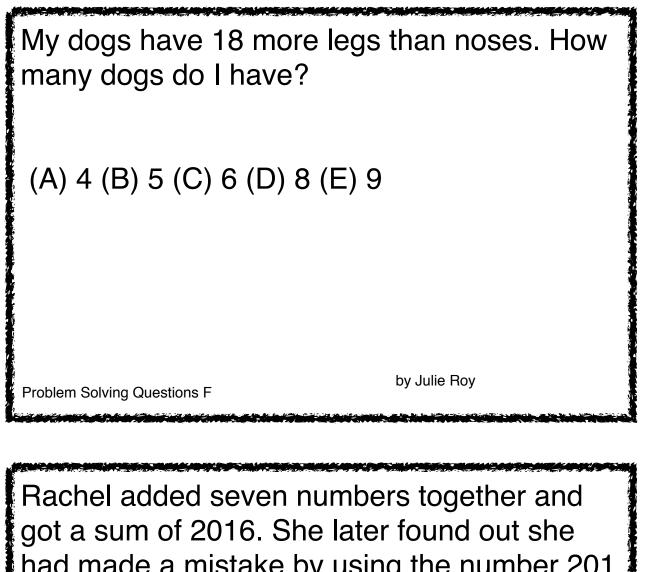


Linda has started to write some numbers in the table below. She decides that each row and each column will contain the numbers 1, 2 and 3 only once.



What is the sum of the numbers she writes in squares A and B? (A) 2 (B) 3 (C) 4 (D) 5 (E) 6

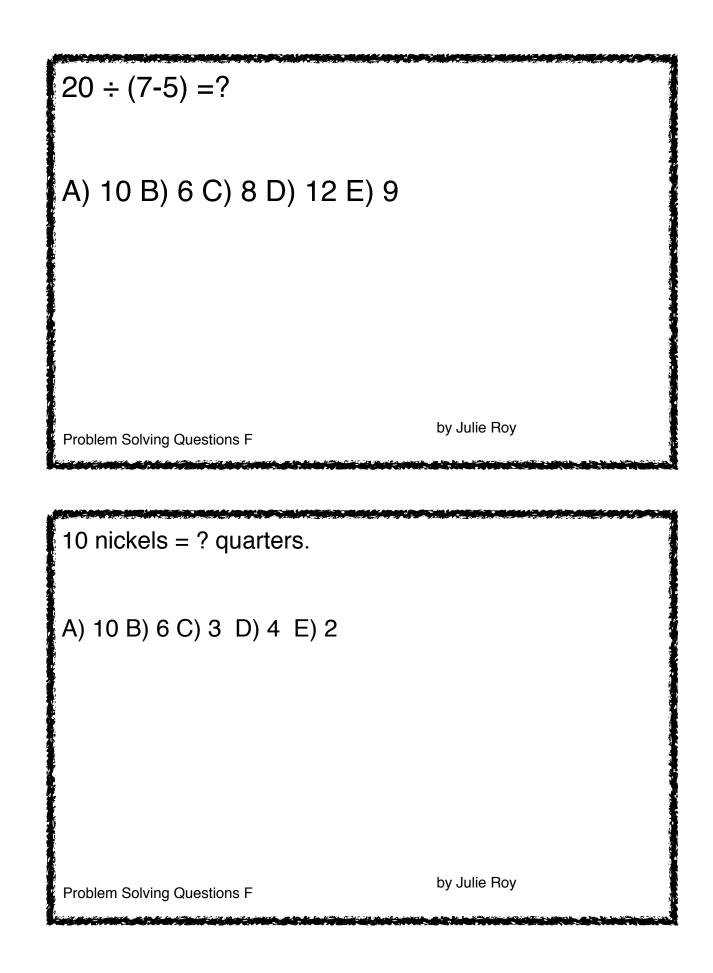
Problem Solving Questions F

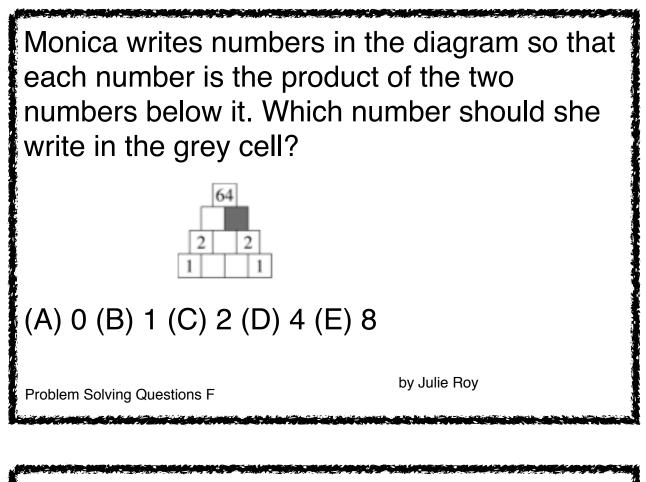


got a sum of 2016. She later found out she had made a mistake by using the number 201 instead of 102. What sum should she have gotten instead of 2016?

(A) 1815 (B) 1914 (C) 1917 (D) 2115 (E) 2118

Problem Solving Questions F

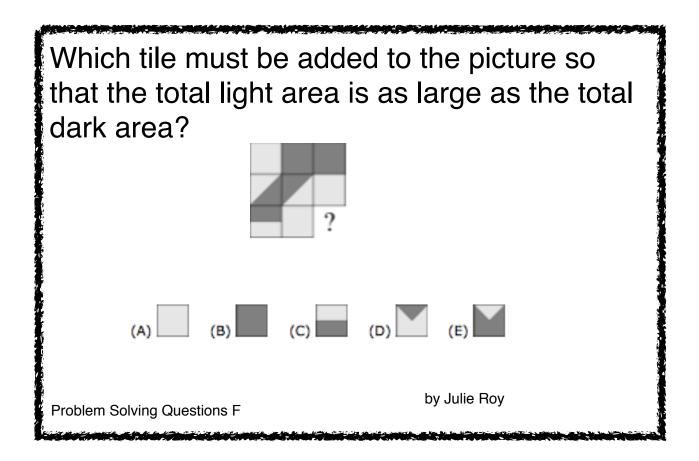




There were some candies in a bowl. Sally took half of the candies. Then Tom took half of the candies left in the bowl. After that, Clara took half of the remaining candies. In the end there were 6 candies in the bowl. How many candies were there in the bowl at the beginning?

(A) 12 (B) 18 (C) 20 (D) 24 (E) 48

Problem Solving Questions F

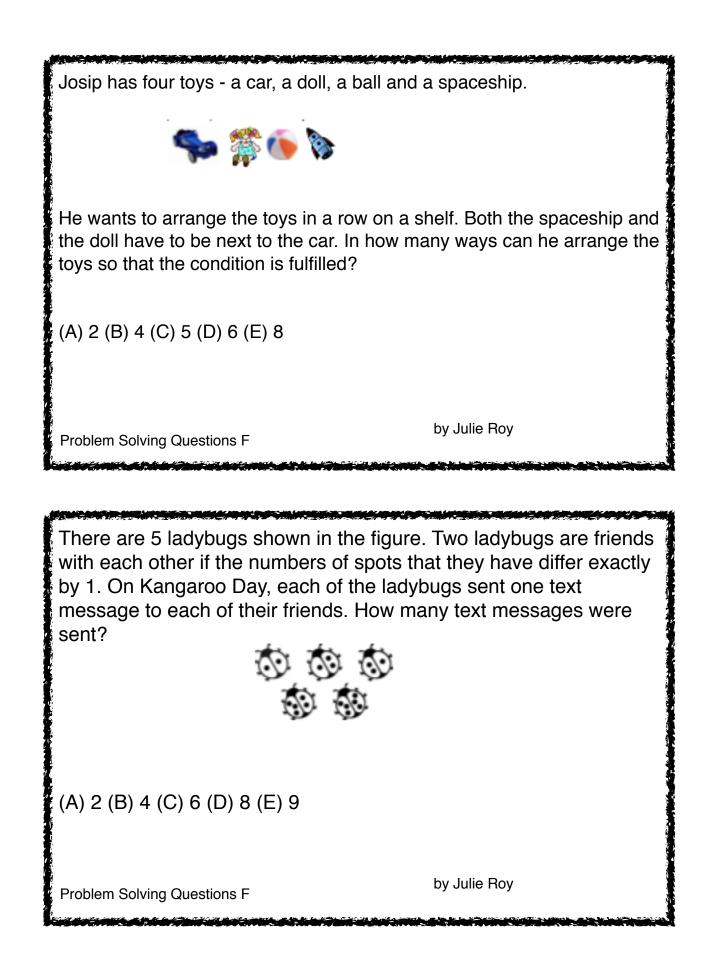


Nick has written each of the numbers from 1 to 9 in the cells of the  $3 \times 3$  table. Only four of these numbers can be seen in the figure. Nick has noticed that for the number 5, the sum of the numbers in the neighbouring cells equals 13 (neighbouring cells are cells sharing a side). He noticed the same applies to the number 6. Which number has Nick written in the shaded cell?

1	2
4	3

(A) 5 (B) 6 (C) 7 (D) 8 (E) 9

Problem Solving Questions F



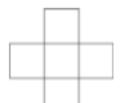
A rectangle is divided into exactly 12 identical squares arranged in three rows. What is the perimeter of the rectangle, if the perimeter of one little square is 12 cm?

(A)21cm (B)42cm (C)108cm (D)60cm (E)24cm

Problem Solving Questions F

by Julie Roy

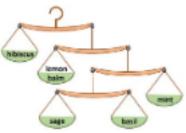
The numbers 2, 3, 5, 6 and 7 are written in the squares of the cross (see the figure) so that the sum of the numbers in the row is equal to the sum of the numbers in the column. Which of the numbers can be written in the centre square of the cross?



(A) only 3 (B) only 5 (C) only 7 (D) either 5 or 7 (E) either 3, 5 or 7  $\,$ 

Problem Solving Questions F

To cook an elixir a witch needs five types of herbs exactly in the amounts weighed by the scales in the picture. The witch knows that she needs to put 5 grams of sage into the elixir. How many grams of hibiscus does she have to use? (The weight of the scales is irrelevant.)

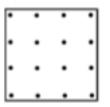


(A) 50 g (B) 40 g (C) 30 g (D) 20 g (E) 10 g

Problem Solving Questions F

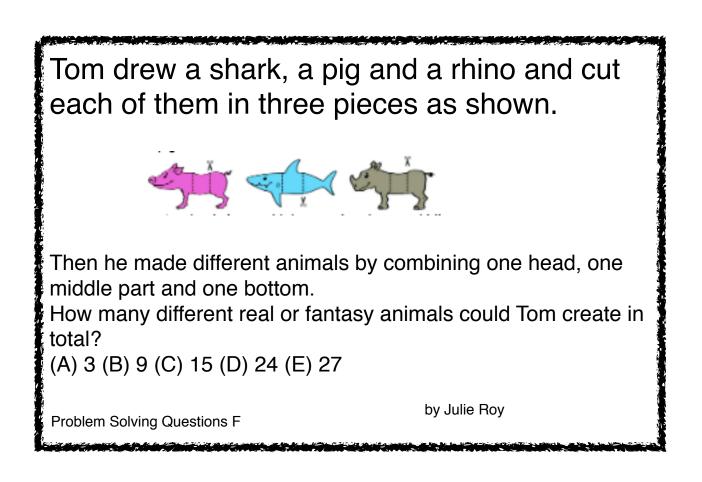
by Julie Roy

In the dotted sheet below, the distances, both horizontally and vertically, between every two neighbouring points are equal.



Ann drew all possible squares by connecting four of the points. How many different values can the area of the squares take? (A) 2 (B) 3 (C) 4 (D) 5 (E) 6

Problem Solving Questions F



Then he made different animals by combining one head, one middle part and one bottom.

How many different real or fantasy animals could Tom create in total?

(A) 3 (B) 9 (C) 15 (D) 24 (E) 27

Problem Solving Questions F