

Amy, Bert, Carl, Doris and Ernst each rolled two dice and added the number of dots and then doubled that answer. What was the greatest result?



- (A) 9 (B) 12 (C) 14 (D) 16 (E) 18

Problem Solving Questions E

by Julie Roy

Peter is guessing Paul's password. Peter knows that Paul used only digits for the last three places and that it has at most three capital letters. Which of the following choices could be Paul's password?

- (A) PAUL123 (B) Pa1u2L3 (C) LUap4321 (D) Paulin3 (E) 123PAUL

Problem Solving Questions E

by Julie Roy

Richard dries grapes to obtain raisins. He gets 1 kilogram of raisins out of 4 kilograms of grapes. How many kilograms of grapes will he need in order to obtain 4 kilograms of raisins?

(A) 12kg (B) 16kg (C) 20kg (D) 25kg (E) 50kg

Problem Solving Questions E

by Julie Roy

A rectangle is partly hidden behind a curtain. What is the shape of the hidden part?



(A) A triangle (B) A square (C) A hexagon (D) A circle  
(E) A rectangle

Problem Solving Questions E

by Julie Roy

Anna shared her apples among herself and five friends. If everyone got half an apple, how many apples did she share?

- (A) 2 and a half (B) 3 (C) 4 (D) 5 (E) 6

Problem Solving Questions E

by Julie Roy

Which of the following is true about this picture?



- (A) There are as many circles as squares.  
(B) There are fewer circles than triangles.  
(C) There are twice as many circles as triangles.  
(D) There are more squares than triangles.  
(E) There are two triangles more than circles.

Problem Solving Questions E

by Julie Roy

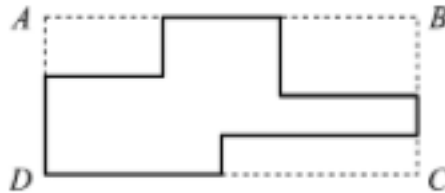
The sum of the digits of the number 2016 is equal to 9 :  $2 + 0 + 1 + 6 = 9$ . What is the next number that is greater than 2016 with the sum of its digits equal to 9?

(A) 2007 (B) 2025 (C) 2034 (D) 2108 (E) 2134

Problem Solving Questions E

by Julie Roy

The perimeter of the rectangle ABCD is 30 cm. Lisa cut off three rectangles as shown.



She found that the sum of the three perimeters is equal to 20 cm. What is the perimeter of the figure obtained after the cutting?

(A) 50 cm (B) 40 cm (C) 30 cm (D) 10 cm (E) impossible to determine

Problem Solving Questions E

by Julie Roy

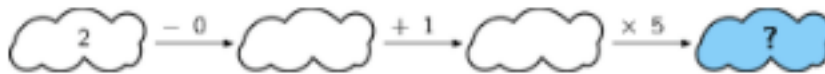
Five children had each a paper square, a paper triangle and a paper circle. Every child put their own papers in a pile, as shown in the pictures. How many children put the triangle after the square?



Problem Solving Questions E

by Julie Roy

Follow the arrows and find the result.



(A) 6 (B) 7 (C) 8 (D) 10 (E) 15

Problem Solving Questions E

by Julie Roy

Dana is saving up for skates. She puts 2 dollars in her piggy bank every Wednesday and Friday. How many dollars will she save up in five weeks?

(A) 5 (B) 10 (C) 15 (D) 20 (E) 25

Problem Solving Questions E

by Julie Roy

A number has two digits. The product of the digits of this number is 15. What is the sum of the digits of this number?

(A) 2 (B) 4 (C) 6 (D) 7 (E) 8

Problem Solving Questions E

by Julie Roy

The value of X in the equation:

$$512 = 317 + X \text{ is}$$

A) 192 B) 193 C) 194 D) 195 E) 196

Problem Solving Questions E

by Julie Roy

Round 220 to the nearest hundred.

The answer is

A) 100 B) 200 C) 50 D) 150 E) 300

Problem Solving Questions E

by Julie Roy

Andrea counted backwards from 30 by 3's. How many of the following numbers: 8, 12, 14, 21, and 27 were not counted by Andrea?






- A) 1 B) 4 C) 2 D) 3 E) 0

Problem Solving Questions E

by Julie Roy

Which tile must be in the shaded square so that the line is connected?



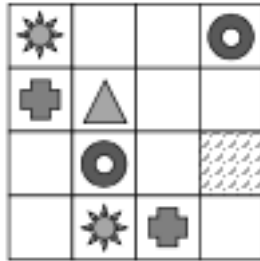
- (A)  (B)  (C)  (D)  (E) 

Problem Solving Questions E






by Julie Roy



Alice has to place different shapes in the table so that each distinct shape appears exactly once in each row and each column.



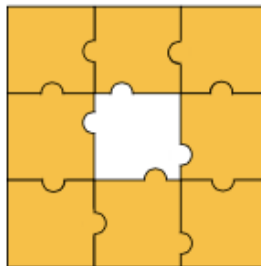
What shape should Alice place in the grey square?

- (A)  (B)  (C)  (D)  (E) 


Problem Solving Questions E

by Julie Roy

The picture shows the back side of the puzzle.



Which of the following pieces (seen from the front side) is the missing piece?

- (A)  (B)  (C)  (D)  (E) 

Problem Solving Questions E

by Julie Roy

Betty marked 8 red points on a straight line. Then she put a blue point in each space between two neighbouring red points. Finally, Betty put a green point in each space between two neighbouring blue and red points. How many points did Betty mark in total?

(A) 14 (B) 18 (C) 26 (D) 29 (E) 30

Problem Solving Questions E

by Julie Roy

In a speed skating competition, 10 racers reached the final. Tom beat three racers more than beat him. Which place did Tom end up in?

(A) 1 (B) 3 (C) 4 (D) 6 (E) 7

Problem Solving Questions E

by Julie Roy