DOKA Paper Q (for Year Level 3-4)

Sample Questions

(Part A - Basic Reasoning)

Yaya is a kind-hearted lady. She donated $\frac{2}{5}$ of her weekly salary to the orphanage last month. She then donated \$96 to the old folk's home and spent all the remaining \$60 to buy food for street cats. What is the amount she donated to the orphanage (in \$)?

Solution:



(Part B - Intermediate Reasoning: NVR)

In the picture shown, how many closed figures are there with 3 straight sides and 1 curved side?



Α.

2

3

6

- В.
- C. 4
- D. 5
- E.

Solution:



Option C: 4 ways

(Part C - Advanced Reasoning)

In a party of 91 students, $\frac{1}{4}$ of the boys is equal to $\frac{2}{5}$ of the girls. By how many less girls than boys are there in the party?

Solution:



(Part D - Extended Reasoning)

Sinderela, Snow Black, Pretty Duckling, and Gruut are four best friends. They shared a total of 140 Invisible Stones. Sinderela had $\frac{1}{4}$ of the total number of Stones the other three friends had. Snow Black had $\frac{3}{5}$ of the total number of Stones that Pretty Duckling and Gruut had. Pretty Duckling had 4 times as many as Gruut. What is the product of the number of Gruut's Invisible Stones and Sinderela's?



Product of number of Gruut's Invisible Stones and number of Sinderela's Invisible Stones = 14 x 28

= 392