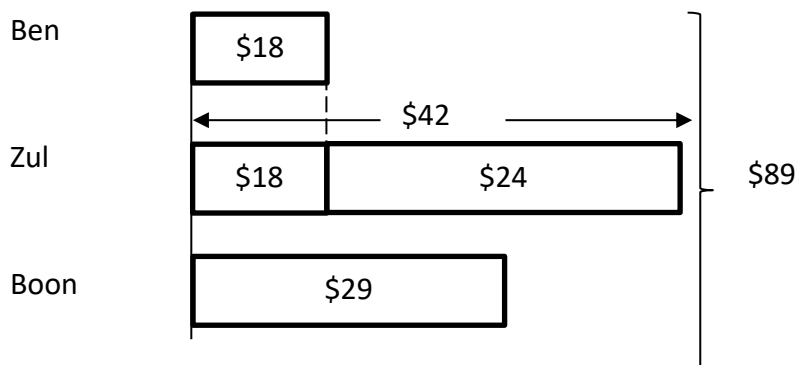# DOKA Paper P (for Year Level 1-2)

Sample Questions

(Part A - Basic Reasoning)

Ben has $24 less than Zul. Boon has $29. Ben has $18. What is the amount of money they have in total (in $)?

Solution:

Ben

| $18 |

$42

Zul

| $18 | $24 | $89

Boon

| $29 |

Zul: 18 + 24 = 42

Total: 18 + 42 + 29 = $**89**

Which three figures will form a square when fitted together? Write your answer using A, B, C or D.
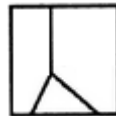

| (1) | (2) | (3) | (4) | (5) |

A.   1, 2, 4
B.   1, 2, 5
C.   2, 3, 4
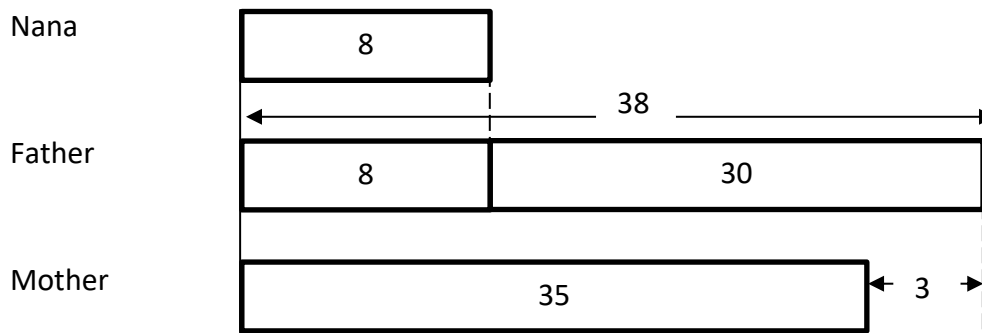D.   2, 3, 5
E.   1, 3, 5
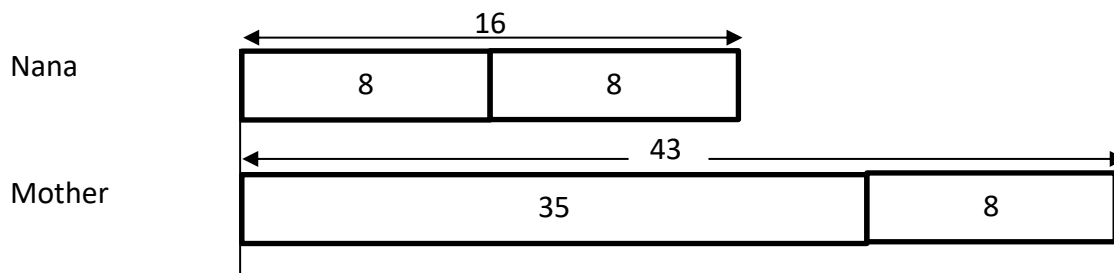
Solution:

Option **B**: 1, 2, 5

Nana just celebrated her 8 year-old birthday recently when her father is 30 years older than her. Nana's mother is 3 years younger than her father. When Nana is 16 years old, how old will her mother be?

Solution:

Nana

| 8 |

Father

| 8 | 30 |

← 38 →

Mother

| 35 | 3

Father: 8 + 30 = 38

Mother: 38 − 3 = 35

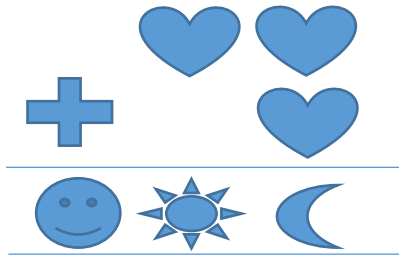Nana

← 16 →

| 8 | 8 |

Mother

← 43 →

| 35 | 8 |

Nana will be 16 years old when it is 8 years later.

So, 8 years later, her mother will be (35 + 8 = **43**) years old.

(Part D - Extended Reasoning)

The following shows an addition of a 2-digit number and a 1-digit number demonstrated in pictorial way. What number must the smiley face be?

Solution:

2 digit + 1 digit = 3 digit

11 + 1 = 12 (2 digit)
22 + 2 = 24 (2 digit)
33 + 3 = 36 (2 digit)
44 + 4 = 48 (2 digit)
55 + 5 = 60 (2 digit)
66 + 6 = 72 (2 digit)
77 + 7 = 84 (2 digit)
88 + 8 = 96 (2 digit)

99 + 9 = **1**08 (3 digit) √

So, the smiley face at the hundreds place must be 1. Or by using logic, only **1** can be accepted.