There were 9 red beads and some blue beads in a box. After some red beads were added, the fraction of blue beads was  $\frac{2}{5}$ . After 56 yellow beads were added, the fraction of the blue beads was  $\frac{2}{9}$ . What was the number of red beads added?

Paper 1, Q30

## <G. R.>

Let  ${\ensuremath{\textcircled{}}}$  be the number of red beads added.

\*The number of blue beads remains unchanged.

Yellow		Red			Blue
0		9			?
 + 56		+ 1			
		3	J	:	2
(4)	γ				
	7			:	2

<Writing>

5 - 2 = 3 (u)	
7 - 3 = 4 (u)	ightarrow yellow beads
$56 \div 4 = 14 \text{ (beads)}$	$\rightarrow$ 1 unit
$14 \times 3 = 42$ (beads)	$\rightarrow$ red beads after added
42 - 9 = 33 (beads)	ightarrow red beads added

Answer 33



<sup>&</sup>lt;< Ratio >>