

The art competition

117 children took part in an art competition.

$\frac{2}{7}$ the number of girls is equal to $\frac{1}{3}$ the number of boys.

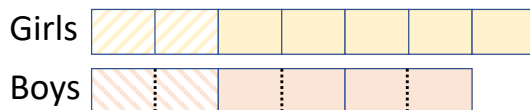
How many girls took part in the art competition?

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The art competition



I know that there are 117 children in the art competition and that $\frac{2}{7}$ of the girls is equal to $\frac{1}{3}$ of the boys. I need to draw $\frac{7}{7}$ and make $\frac{1}{3}$ of the boys bar (shaded) the same length as $\frac{2}{7}$. Since the boys $\frac{1}{3}$ is worth $\frac{2}{7}$, I must split the boys bars into 2 equal parts. This will make 13 equal parts. I then divide 117 children by 13, which makes each part worth 9 children. I then multiply 9 (number of children represented by each part) by 7 (the number of parts in the girls bar) to get the number of girls in the art competition, which is 63 girls.

117 children took part in an art competition. $\frac{2}{7}$ the number of girls is equal to $\frac{1}{3}$ the number of boys. How many girls took part in the art competition?

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