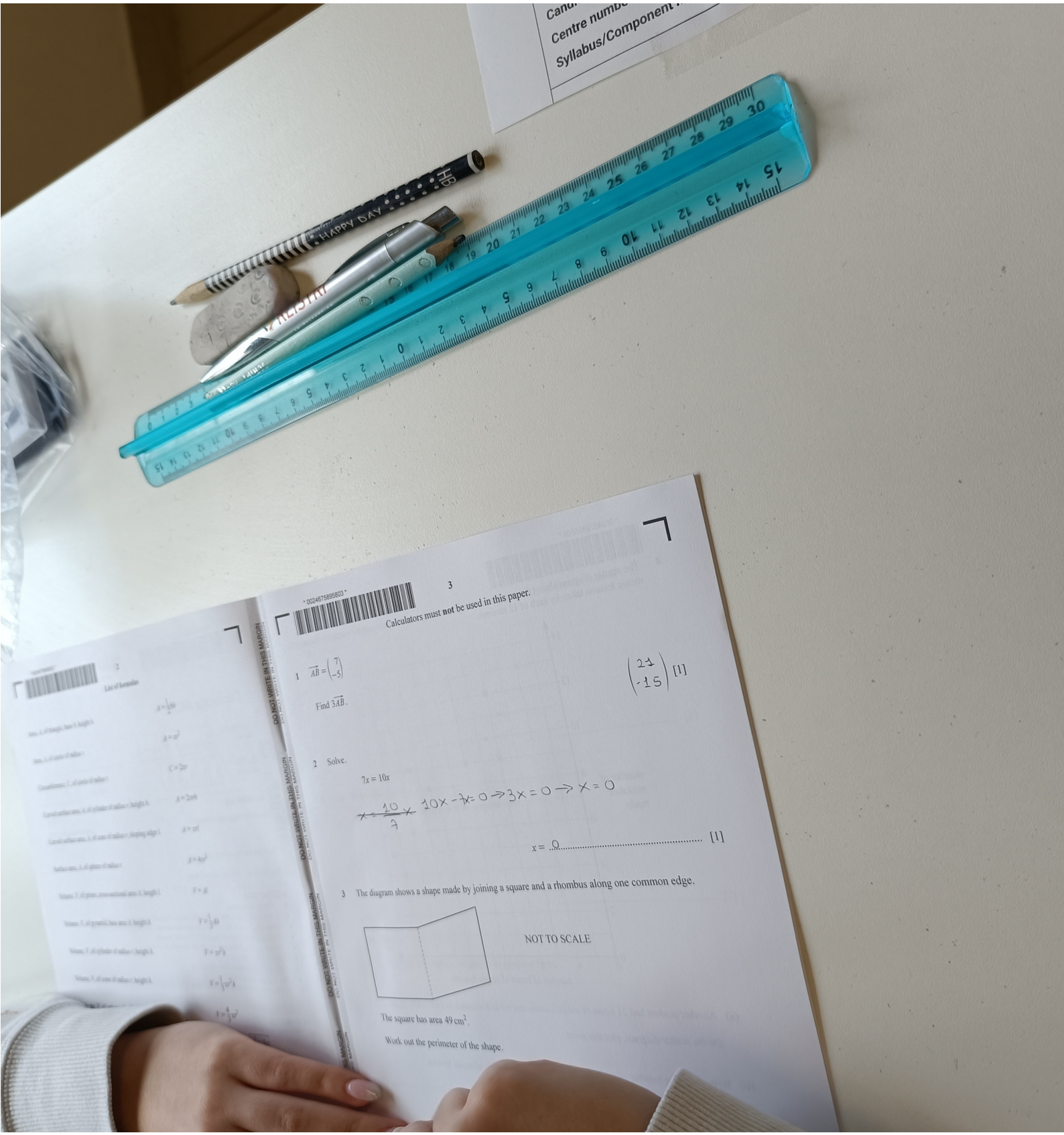

Centre numbe
Syllabus/Component
HAPPY DAY
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
* 0024675895803 *
3
Calculators must not be used in this paper.
1 $\overrightarrow{AB} = \begin{pmatrix} 7 \\ -5 \end{pmatrix}$
Find $3\overrightarrow{AB}$.
$\begin{pmatrix} 21 \\ -15 \end{pmatrix}$ [1]
2 Solve.
$7x = 10x$
$10x - 7x = 0 \rightarrow 3x = 0 \rightarrow x = 0$
$x =$ 0 [1]
3 The diagram shows a shape made by joining a square and a rhombus along one common edge.
NOT TO SCALE
The square has area 49 cm^2.
Work out the perimeter of the shape.
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN
DO NOT WRITE IN THIS MARGIN