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RELATIVE

TABLE–SELECTION GAME

Select one correct answer for each of the questions in the test and press the Finish button at the end. The answers will be validated automatically.

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Let p be a line containing the points S_4, S_1, S_3, S_2 in this order, where $|S_4S_1| = 1\,\text{cm}$, $|S_1S_3| = 1.5\,\text{cm}$, and $|S_3S_2| = 3.5\,\text{cm}$.

Further, let k_1, k_2, k_3, k_4, and k_5 be circles with the centers S_1, S_2, S_3, S_4, and S_2 (again) and radii $r_1 = 3\,\text{cm}$, $r_2 = 2\,\text{cm}$, $r_3 = 1.5\,\text{cm}$, $r_4 = 1.5\,\text{cm}$, and $r_5 = 8\,\text{cm}$ respectively. Determine the relative position of the circles.

		the circles intersect at two distinct points	the circles touch externally	the circles touch internally	the circles have no point of intersection and one circle is contained in the other
1.	k_3, k_4	☐	☐	☐	☐
2.	k_1, k_2	☐	☐	☐	☐
3.	k_1, k_3	☐	☐	☐	☐
4.	k_1, k_4	☐	☐	☐	☐
5.	k_1, k_5	☐	☐	☐	☐
6.	k_2, k_3	☐	☐	☐	☐