MAFS.912.G-GPE.2.6	Find the point on a directed line segment between two given points that partitions the segment in a given ratio.
Item Types	Equation Editor – May require identifying a ratio. GRID – May require constructing a graph. Multiple Choice – May require selecting from choices. Multiselect – May require identifying points on a line segment.
Clarification	Students will find a point on a directed line segment between two given points when given the partition as a ratio.
Assessment Limit	
Stimulus Attribute	Items may be set in a real-world or mathematical context.
Response Attributes	Items may require the student to find a ratio when given the endpoints of a directed line segment and a point on the line segment. Items may require the student to find an endpoint when given a ratio, one endpoint, and a point on the directed line segment.
Calculator	Neutral

Sample Item	Item Type
	Equation Editor

Points A, B, and C are collinear and $AB:AC = \frac{2}{5}$. Point A is located at $(-3, 6)$, point B is located at (n, q), and point C is located at $(-3, -4)$.

What are the values of n and q?

$n = $ [   ]

$q = $ [   ]

← → ↶ ↷ ⊗

1	2	3
4	5	6
7	8	9
0	.	-