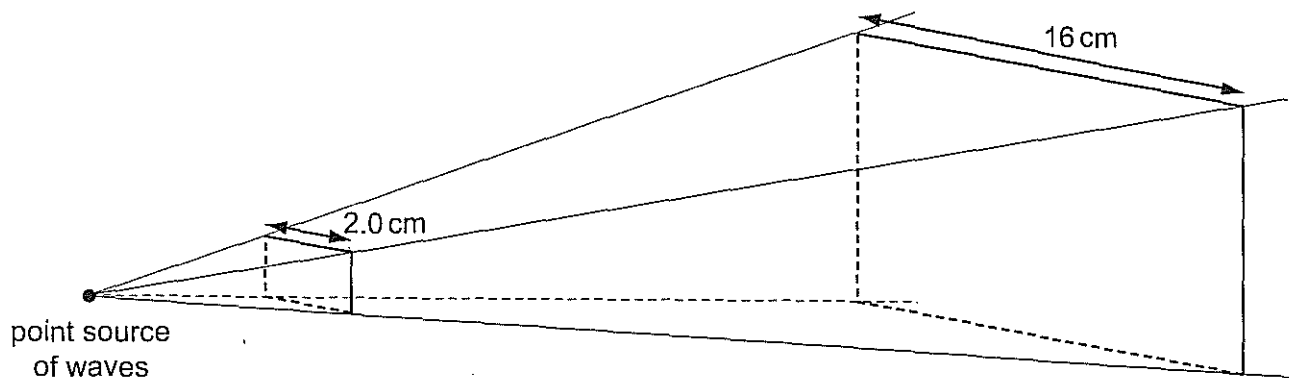


20 Waves from a point source pass through an area that is 2.0 cm wide, as shown.



Within this area, the intensity of the waves is I and their amplitude is A . The waves reach a second area of width 16 cm.

What will be the intensity and amplitude of the waves when they reach the second area?

	intensity	amplitude
A	$\frac{I}{8}$	$\frac{A}{4}$
B	$\frac{I}{64}$	$\frac{A}{4}$
C	$\frac{I}{64}$	$\frac{A}{8}$
D	$\frac{I}{256}$	$\frac{A}{16}$