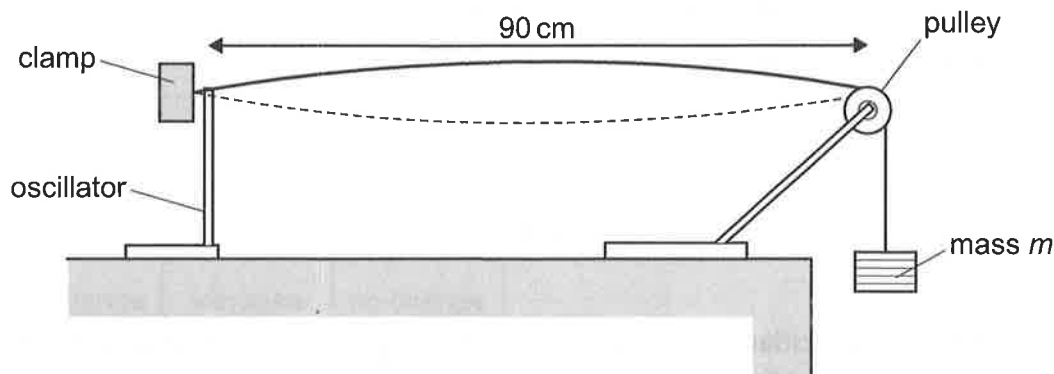17 The speed of a wave on a stretched string is proportional to the square root of the tension in the string.

The string is held under tension between a clamp and a pulley 90 cm apart by a mass m of 400 g hanging from the end of the string.

When the frequency f of the mechanical oscillator close to the clamped end is 15 Hz, the stationary wave shown is set up between the clamp and the pulley. The hanging mass m and frequency f are varied until another stationary wave is formed.

Which combination of m and f gives a stationary wave?

	m/g	f/Hz
A	500	30
B	600	40
C	800	60
D	900	90

18 Two equal and opposite charges