

- 9 A student hangs a mass from the end of a spring and sets the mass into vertical oscillation. The period of oscillation of the mass is T .

The student then hangs the same mass from a second spring, with a spring constant four times that of the first spring.

What is the period of oscillation of the mass on the second spring?

- ☐ A $T/4$
- ☐ B $T/2$
- ☐ C $2T$
- ☐ D $4T$

(Total for Question 9 = 1 mark)