

**15** A lorry of mass 20 000 kg has a constant resultant force  $F$  acting on it.

It accelerates from  $6.0\text{ m s}^{-1}$  to  $30.0\text{ m s}^{-1}$  in a time of 300 s.

What is the change in momentum of the lorry and the value of  $F$ ?

	change in momentum/N s	force $F$ /N
<b>A</b>	48 000	160
<b>B</b>	480 000	1600
<b>C</b>	600 000	2000
<b>D</b>	600 000	20 000

**16** A stationary body floats in water.