

- 11 Four planets A, B, C and D have masses and radii as listed in terms of  $M$  and  $R$  where  $M$  and  $R$  are the mass and radius of the Earth respectively.

Which planet would have a surface escape speed which is the same as that of the Earth?

	mass of planet	radius of planet
<b>A</b>	$\frac{1}{2}M$	$\frac{1}{\sqrt{2}}R$
<b>B</b>	$\frac{1}{2}M$	$R$
<b>C</b>	$M$	$\frac{1}{2}R$
<b>D</b>	$2M$	$2R$