20	$y = \frac{k}{\sqrt{x}}$ or $ky = \frac{1}{\sqrt{x}}$ or $x = pT^3$ or $y = \frac{k}{\sqrt{pT^3}}$ or $y = \frac{c}{\sqrt{T^3}}$ oe	**Alternative** $y^2T^3 = n$ oe		4	M1 Constant of proportionality must be a symbol such as k or p or c or n $k \neq 1$, $p \neq 1$ and $c \neq 1$ and $n \neq 1$
	$c = 8 \times \sqrt{25^3}\ (=1000)$ oe	$n = 8^2 \times 25^3\ (=1000000)$ oe			M1 dep M1 for rearranging for c or n with (y =) 8 and (T =) 25 substituted correctly into their equation
	$27 = \frac{'1000'}{\sqrt{T^3}}$ and $T^3 = \left(\frac{'1000'}{27}\right)^2$ oe $27 = \frac{'1000'}{\sqrt{T^3}}$ and $T^{\frac{1}{2}} = \left(\frac{'1000'}{27}\right)^{\frac{1}{3}}$ oe	$T^3 = \frac{'1000000'}{27^2}$ oe			M1 for substitution of y **and** a correct rearrangement for T^3 or $T^{\frac{1}{2}}$ or T.
			$\frac{100}{9}$		A1 oe eg $11\frac{1}{9}$ or $11.1\dot{}$ or $11.111(\ldots)$
					Total 4 marks